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Sediment Data
British Columbia

Données sur les sédiments
Colombie-Britannique

1990

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WATER RESOURCES BRANCH
WATER SURVEY OF CANADA
OTTAWA, CANADA, 1992

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PREFACE

This publication was prepared by personnel of the Sediment Survey Section, Water Survey of Canada Division, under the direction of the Director, Water Resources Branch, Department of the Environment, Ottawa.

The basic data were collected and compiled under the supervision of the Regional Chief of the Water Resources Branch at Vancouver, British Columbia.

The co-operation received from provincial agencies and from other organizations is gratefully acknowledged.

PRÉFACE

Le groupe d'étude des sédiments de la Division des relevés hydrologiques du Canada, sous l'autorité du directeur des Ressources en eau du ministère de l'Environnement, à Ottawa, a préparé la présente publication.

Le chef régional de la Direction des ressources en eau, à Vancouver (Colombie-Britannique), a supervisé la collecte et la compilation des données de base.

Nous remercions vivement les organismes provinciaux, ou autres, pour leur collaboration.

TABLE OF CONTENTS

	PAGE
Preface	iii
Introduction	iv
Scope of Publication	v
History and Objectives of Sediment Surveys in Canada	v
Publication of Sediment Data	v
Collection and Processing of Basic Data	vii
Equipment and Instrumentation	vii
Hydrometric Surveys	vii
Sediment Sampling Program	vii
Total Sediment Load	ix
Sediment Survey Laboratories	ix
Accuracy and Reliability of Field Data and Computed Results	x
Method of Tabulation of Sediment Data	xi
Definition of Terms	xiv
Definition of Symbols	xvi
Microfiche	xvii
Equivalents of Measure	xviii
Co-operation and Acknowledgments	xix
Revisions	xix
Sediment Data Stations in Alphabetical Order	1
Station Number Index	53
Alphabetical Index	51

INTRODUCTION

The Water Resources Branch of the Department of the Environment herein presents for the 1990 calendar year the annual suspended sediment data and a historical data summary for the sediment survey investigations conducted in British Columbia by the Water Survey of Canada.

Data on the character and quantity of fluvial sediments provided by sediment survey investigations are intended for use in studies of water quality, environmental impacts, river processes and behaviour, and engineering design.

General introductory information on the sediment survey is included in this publication. Similar information for the associated hydrometric survey is given in the regular publications containing surface water data.

Details on individual stations and related records, as well as recent data that have not yet been published, may be obtained upon application to:

Regional Chief,
Water Resources Branch,
Department of the Environment,
502-1001 West Pender Street,
Vancouver, British Columbia.
V6E 2M9
(604 666-3606)

or to the Director, Surveys and Information Systems Branch, Department of the Environment, Ottawa, Ontario, K1A 0H3 (819 997-2098).

TABLE DES MATIÈRES

	PAGE
Préface	iii
Introduction	iv
Portée de la publication	v
Historique et objectifs des études des sédiments au Canada	v
Publication des données sur les sédiments	v
Collecte et traitement des données de base	vii
Matériel	vii
Relevés hydrométriques	vii
Échantillonnage des sédiments des cours d'eau	vii
Débit solide total	ix
Laboratoires d'analyse	ix
Exactitude des données et des résultats	x
Présentation des tableaux de données sur les sédiments	xi
Définition des termes	xiv
Définition des symboles	xvi
Microfiche	xvii
Équivalences des unités de mesure	xviii
Coopération et remerciements	xix
Révisions	xix
Stations de relevé des sédiments par ordre alphabétique	1
Index numérique des stations	53
Index alphabétique	51

INTRODUCTION

Dans la présente publication de la Direction des ressources en eau du ministère de l'Environnement, on trouvera les données annuelles sur les sédiments en suspension pour 1990 et le sommaire des données chronologiques sur les sédiments, à la suite des études effectuées dans les cours d'eau de la Colombie-Britannique par la Division des relevés hydrologiques du Canada.

Les données recueillies sur la nature et l'importance de la charge solide dans les cours d'eau doivent servir aux études portant sur la qualité des eaux, les incidences environnementales, les processus fluviaux, le comportement des cours d'eau et la conception de projets.

La presente publication contient des renseignements généraux préliminaires sur les études des sédiments. Des renseignements semblables sur les études hydrométriques connexes sont contenus dans les publications régulières présentant des données sur les eaux de surface.

On peut obtenir des renseignements supplémentaires sur les stations et les relevés, ainsi que des données récentes non encore publiées, en s'adressant au:

Chef régional
Direction des ressources en eau
Ministère de l'Environnement
502-1001, rue Pender ouest
Vancouver (C.-B.)
V6E 2M9
(604 666-3606)

ou au Directeur, Relevés et systemes d'information, ministère de l'Environnement, Ottawa (Ontario), K1A 0H3 (819 997-2098).

SCOPE OF PUBLICATION

Descriptive information about sediment stations is given. This refers to the Location, Latitude and Longitude, Drainage Area and whether the flow is Natural Flow or Regulated Flow (the year that regulation began is given, if known), Type of Gauge and the Total Suspended Sediment Load in Tonnes for the Period of Record is also included. International Gauging Stations are identified and the names of co-operating agencies who supply data are given; unusual conditions at the sediment station that could affect the data results are explained under "Remarks".

This publication contains data on streamflow, instantaneous suspended sediment concentration; daily mean suspended sediment concentration; daily suspended sediment loads; dissolved solids concentration; load summary; particle-size distribution of suspended sediment in percent sand, silt and clay; bed load and bed material; water temperature when samples were collected; type of sampler and the single sampling vertical location.

A historical sediment data summary includes such information as Sampled Concentration Maximum and Minimum; Suspended Sediment Load Maximum Daily and the Total for Period. The Period of Record and the Type of Operation for each year of data are also given. A Summary for the Months of record gives the Period of Record Mean, the Mean for Period of Record and the Standard Error of Mean as a percent.

HISTORY AND OBJECTIVES OF SEDIMENT SURVEYS IN CANADA

In Canada, investigations of sediment transported by streams were first undertaken by individual organizations or agencies in 1948, to meet the needs of federal and provincial agencies for assessment of particular projects. Although the investigations were extended to meet expanding needs after 1948, it was not until 1961 that a systematic survey was undertaken by the Water Resources Branch.

The sediment survey program has the following objectives:

(1) Collection and provision of data related to sediment transport in Canadian rivers for applications in water resource engineering, water quality and environmental studies.

(2) Provision of information and advice related to sediment transport.

(3) Assessment, improvement and standardization of equipment and techniques used in Canada's sediment survey program.

PUBLICATION OF SEDIMENT DATA

Sediment data have been published in a variety of formats since the beginning of the Sediment Survey Program.

PORTÉE DE LA PUBLICATION

Des données descriptives sont présentées sur les stations d'étude des sédiments. Elles concernent leur emplacement, leurs latitude et longitude, leur bassin versant, la nature de débit (naturel ou régularisé, avec indication, le cas échéant, de l'année où la régularisation a commencé, si elle est connue), le type d'instrument de mesure employé et le débit total des sédiments en suspension (en tonnes) pour la période de relevé. Les stations internationales de jaugeage sont indiquées, ainsi que le nom des organismes qui fournissent les données. Des explications concernant des conditions exceptionnelles qui ont pu influer sur les résultats sont présentées dans la partie «Remarques».

Cette publication renferme des données sur le débit des cours d'eau, les concentrations instantanées de sédiments en suspension, les concentrations journalières moyennes de sédiments en suspension, les débits journaliers de sédiments en suspension, les concentrations de matières dissoutes, les débits solides totaux (résumés), la granulométrie des sédiments en suspension exprimée en pourcentage de sable, de limon et d'argile, le charriage et les matériaux du lit, la température de l'eau au moment de l'échantillonnage, le type d'échantillonneur employé et l'emplacement des verticales de prélèvement d'échantillons uniques.

Un résumé des données historiques sur les sédiments est inclus. On y trouve divers renseignements comme les concentrations maximale et minimale mesurées, le débit journalier maximal des sédiments en suspension et le total pour la période. La période de relevé et le type d'exploitation des stations sont indiqués pour chaque année. Dans un résumé pour les mois de relevé, on donne la moyenne pour chaque période et pour l'ensemble des périodes de relevé ainsi que l'erreur-type de la moyenne, en pourcentage.

HISTORIQUE ET OBJECTIFS DES ÉTUDES DES SÉDIMENTS AU CANADA

Au Canada, les études dans ce domaine ont débuté en 1948 en réponse aux besoins exprimés par certains organismes fédéraux et provinciaux pour l'évaluation de projets donnés et étaient le fait d'organismes privés. Bien que les études se soient poursuivies après 1948 pour satisfaire aux besoins accrus, ce n'est qu'en 1961 que la Direction des ressources en eau les a entreprises de façon systématique.

Les buts de ces études sont de:

(1) réunir et produire des données sur les transports solides dans les cours d'eau canadiens, données dont on peut avoir besoin pour des études concernant l'environnement, la qualité des eaux et la conception de projets portant sur les ressources en eau.

(2) produire des informations concernant les transports solides.

(3) évaluer, améliorer et uniformiser le matériel et les techniques employés dans le programme d'étude des sédiments au Canada.

PUBLICATION DES DONNÉES SUR LES SÉDIMENTS

Depuis le début du programme d'étude des sédiments, la présentation des données a varié.

During the years 1948 to 1960, some sediment data were collected for several Prairie rivers to meet the needs of particular projects. The first Water Resources Paper series containing sediment data incorporated a selection of these data and also data for part of the year ending September 30, 1961, at stations established for the continuing program. The second issue was a biennial publication covering only the continuing program for the 1962 and 1963 water years. All subsequent editions titled *Sediment Data Canadian Rivers* have been published annually. The sediment data since 1978 have been presented entirely in the International System of Units (SI).

Commencing with 1984, the *Sediment Data* were published in a new format wherein Canada was divided into eight regions. The provinces each represent a separate region except for New Brunswick, Newfoundland, Nova Scotia and Prince Edward Island, which together form the Atlantic Provinces region, and the Yukon and Northwest Territories which make up another. The publications are identified by the province or territories covered and the year in which the data were collected. These data are published annually on a calendar-year basis and the stations are listed alphabetically.

A new edition, *Miscellaneous Sediment Data 1966 to 1983*, was published. It contains a tabulation of locations in Canada where miscellaneous data were collected but not previously published by the Water Survey of Canada. The following data are included in this one time publication: date and time of sample collection; instantaneous discharge or daily mean discharge; sampling vertical; instantaneous concentration; dissolved solids for some samples; type of sampler used; particle size distribution of suspended sediment in percent sand, silt and clay for some depth integrated samples and/or measurements, and some point integrated measurements; particle size distribution of bed load; particle size distribution of bed material; and the water temperature at time of sampling for some samples is also given where available.

The first edition of a *Sediment Data Reference Index* was published for data to 1972. It contains a tabulation of locations in Canada where sediment data were collected by the Water Survey of Canada. The index has been subdivided alphabetically by province or territory, with sediment survey stations also listed alphabetically. Commencing with the 1978 publication, data are presented in the International System of Units (SI) and will continue to be published biennially. The latest edition supersedes all previous editions because it contains any corrections or additions since the last publication.

The first edition of a new publication series titled *Historical Sediment Data Summary for Canadian Rivers* was produced for data to 1974. This publication contains a summary of historical monthly and annual mean suspended sediment load, and annual extremes of daily suspended sediment concentration and loads and total annual suspended load. Commencing with the 1978 publication, data are presented entirely in the International System of Units (SI). This publication has been discontinued, as much of the information is now included in the new annual *Sediment Data* publication.

De 1948 à 1960, on a recueilli des données pour plusieurs cours d'eau des Prairies en prévision de la réalisation de certains projets. La première publication contenant des données sur les sédiments a paru dans la série intitulée *Water Resources Paper*; elle présentait un choix de ces données ainsi que des données recueillies en 1961 avant le 30 septembre à des stations établies pour la réalisation du programme permanent. La deuxième publication a porté sur les données recueillies dans le cadre du programme au cours des années hydrologiques 1962 et 1963. Par la suite, les données ont été publiées annuellement sous le titre *Données sur les sédiments - rivières canadiennes*. Depuis 1978, les données sont exprimées en unités du Système international (SI).

En 1984, la présentation des *Données sur les sédiments* a été modifiée. Le Canada a été divisé en huit régions, une région pour chaque province, sauf le Nouveau-Brunswick, Terre-Neuve, la Nouvelle-Écosse et l'Île-du-Prince-Édouard qui, ensemble, forment la région des provinces de l'Atlantique, et les Territoires du Yukon et du Nord-Ouest, qui forment une autre région. Les publications sont nommées selon la région couverte et l'année des donnees (année civile). Ces publications sont annuelles. Les stations y sont présentées par ordre alphabétique.

Une édition récente intitulée *Données diverses sur les sédiments, 1966 à 1983* vient de paraître. On y présente sous forme de tableau les emplacements où des données diverses non encore publiées ont été recueillies au Canada par la Division des relevés hydrologiques. Cette première édition comprend des données telles que : la date et la durée de l'échantillonnage; le débit instantané ou débit journalier moyen; la verticale d'échantillonnage; les concentrations instantanées; les concentrations de matières solides en solution pour certains échantillons; le type d'échantillonneur employé; la granulométrie des sédiments en suspension en pourcentage de sable, de limon et d'argile, dans le cas de mesures avec intégration selon la profondeur ou d'échantillons intégrés sur toute la profondeur, et dans le cas de mesures par la méthode ponctuelle; la granulométrie du charriage; la granulométrie des matériaux du lit; la température de l'eau lors du prélèvement d'échantillons, lorsque celle-ci est connue.

Un *Index de référence des données sur les sédiments* est publié. La première édition portait sur les données disponibles jusqu'en 1972. Les emplacements où des données sur les sédiments ont été recueillies au Canada par la Division des relevés hydrologiques y sont présentés sous forme de tableau. L'*Index* est subdivisé selon l'ordre alphabétique par province ou territoire, et les stations de mesure des sédiments sont classées par ordre alphabétique. À partir de 1978, les données sont exprimées en unités du Système international (SI). L'*Index* est publié tous les deux ans; l'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour effectuées depuis la dernière parution.

Une autre série de publications a porté le titre *Sommaire chronologique des données sur les sédiments de rivières canadiennes*. La première édition renfermait les données disponibles jusqu'en 1974. Cette série présentait un résumé donnant les moyennes mensuelles et annuelles historiques du débit des sédiments en suspension, les valeurs annuelles extrêmes de la concentration journalière et du débit journalier des sédiments en suspension et le débit annuel total des sédiments en suspension. À partir de 1978, les données ont été présentées en unités du Système international (SI). Cette série a été abandonnée, car une bonne partie de l'information est maintenant contenue dans la nouvelle publication annuelle intitulée *Données sur les sédiments*.

COLLECTION AND PROCESSING OF BASIC DATA

1. *Equipment and Instrumentation*

The sediment survey program of the Water Resources Branch is conducted in cross sections on rivers selected specifically for the sediment survey or for the hydrometric survey. Certain cross sections are located at traffic bridges, while others are equipped with cableways, or automatic pump samplers.

The following sediment samplers have been used in the sediment survey program:

(a) Depth-integrating suspended sediment wading-type hand sampler, USDH-48, used on small streams or during winter periods.

(b) Depth-integrating suspended sediment sampler, USDH-59, used as a handline suspension for small and medium size streams.

(c) Depth-integrating suspended sediment samplers, USD-49, and USD-74, used on a reel suspension for medium and large streams whose depths are less than five metres.

(d) Point-integrating suspended sediment samplers, USP-61, USP-61-A1, USP-63, and USP-72, used for point-integrating sampling, or depth-integrating sampling if the depth is over five metres, or in a cross section with velocities up to two metres per second.

(e) Automatic pump sampler is an automatic pumping system permitting unattended collecting and bottling of individual water samples pumped from a fixed point in a stream. This sampler is normally installed at isolated locations where otherwise no data would be available during ice break-up or peak periods.

(f) Bed material sampler, USBM-54, used on large or deep streams or on those streams with hard-packed streambeds.

(g) Bed material sampler, USBMH-60, used on some large or deep streams or on those streams with soft-packed streambeds.

(h) Bed material sampler, USBMH-53, used on some small or shallow streams.

(i) Lane bed material sampler, a drag-type sampler used on small streams or those with soft streambeds.

2. *Hydrometric Surveys*

The hydrometric survey includes the standard procedures for observations of water levels, streamflow measurements, water surface slope determinations if required, and observations of water temperature. The streamflow measurements are made in conjunction with the sediment load measurements and conform to the accepted standards of the regular hydrometric survey.

3. *Sediment Sampling Program*

The following is a summary of the elements associated with the Sediment Sampling Program:

(a) Periodic measurement of suspended sediment load by the

COLLECTE ET TRAITEMENT DES DONNÉES DE BASE

1. *Matériel*

L'étude des sédiments réalisée par la Direction des ressources en eau porte sur des sections transversales de cours d'eau choisis spécialement à cette fin ou pour les relevés hydrométriques. Certaines sections sont situées sous un pont, d'autres sont accessibles par téléphérique, ou sont étudiées à l'aide d'un échantillonneur sous pression.

On a utilisé les échantillonneurs suivants:

(a) L'échantillonneur intégrateur selon la profondeur, type simple, USDH-48, employé dans les cours d'eau peu profonds ou en hiver;

(b) L'échantillonneur intégrateur selon la profondeur USDH-59, utilisé comme une ligne dans les cours d'eau petits et moyens;

(c) Les échantillonneurs intégrateurs selon la profondeur USD-49 et USD-74 fixés au bout d'une corde s'enroulant autour d'un moulinet et employés dans les cours d'eau gros ou moyens dont la profondeur est inférieure à cinq mètres;

(d) Les échantillonneurs intégrateurs USP-61, USP-61-A1, USP-63 et USP-72, employés ponctuellement ou sur toute la verticale, et utilisés lorsque la profondeur est supérieure à cinq mètres ou dans les sections transversales qui connaissent un débit qui atteint 2 m/s.

(e) Un échantillonneur automatique permettant le prélèvement en bouteilles, sans surveillance, d'échantillons uniques d'eau obtenus à l'aide d'une pompe en un point précis d'un cours d'eau; il est ordinairement installé dans un endroit isolé où aucune donnée ne pourrait être obtenue autrement au cours de la débâcle ou des périodes de débit de pointe;

(f) L'échantillonneur USBM-54 employé pour le prélèvement d'échantillons des matériaux du lit dans les cours d'eau importants ou profonds ou dans les cours d'eau dont le fond est dur;

(g) L'échantillonneur USBMH-60 employé pour le prélèvement d'échantillons des matériaux du lit dans certains cours d'eau importants ou profonds, ou dans les cours d'eau dont le fond est meuble;

(h) L'échantillonneur USBMH-53 employé pour le prélèvement d'échantillons des matériaux du lit dans certains cours d'eau petits ou peu profonds;

(i) La drague employée pour le prélèvement d'échantillons des matériaux du lit dans de petits cours d'eau ou dans des cours d'eau dont le fond est meuble.

2. *Relevés hydrométriques*

Le relevé hydrométrique comprend, entre autres, l'observation de la hauteur des eaux, la mesure du débit de l'eau, la détermination de la pente de la ligne d'eau, si nécessaire, ainsi que l'observation de la température de l'eau. Les mesures du débit de l'eau et du débit des sédiments se font conjointement, suivant les méthodes acceptées.

3. *Échantillonnage des sédiments des cours d'eau*

L'échantillonnage comporte, en gros, les éléments suivants:

(a) La mesure périodique du débit des sédiments en suspension par la méthode d'intégration sur toute la profondeur

depth-integrating method for determining the average suspended sediment concentration in the cross section.

(b) Single suspended sediment samples at a selected vertical for determining the sediment concentration for the days when suspended sediment load measurements are not taken.

(c) Limited measurement of suspended sediment load by the point-integrating method for checking depth-integrated measurements and for determining particle-size distribution in the cross section.

(d) Sampling of bed material for determining particle-size distribution.

(e) Periodic measurement of bed load.

The following is a brief explanation of the elements listed above:

(a) *Suspended Sediment Load by Depth-Integrating Method*: Measurements are made by the depth-integrating method to determine the suspended sediment load in the entire cross section of a stream, the average suspended sediment concentration in the cross section, and the size distribution of the sediment particles. It is known that the concentration of suspended sediment tends to increase from the water surface to the streambed and could vary from streambank to streambank.

When making suspended sediment equal-discharge-increment (EDI) measurements, the stream cross section is divided into at least five equal-flow panels and a representative suspended sediment sample is collected from each portion. For each panel of the cross section, the suspended sediment load (r) may then be computed by multiplying the flow (q) by the suspended sediment concentration (c):

$$r = q\ c$$

The suspended sediment load (R) for the cross section may be computed by adding the sediment loads for the five equal-flow panels:

$$R = r\ n = q_1c_1 + q_2c_2 + \ldots + q_nc_n$$

The depth-integrating method of sampling is used to measure the suspended sediment concentration. This method is based on the premise that the sampler fills at a rate proportional to the velocity of the approaching flow, and that by traversing the depth of a stream at a uniform speed, the sampler will receive a portion of water sediment mixture at every point in the vertical.

(b) *Single Suspended Sediment Samples at a Selected Vertical*: Single suspended sediment samples, consisting of two bottles each, are collected routinely using the depth or point-integrating samplers at a permanently fixed vertical in a cross section. During periods of very heavy sediment concentration, two or three single sediment samples may be taken per day, while during periods of low concentration, one single sediment sample may only be taken every few days. During extremely low flow periods, the sampling may be limited to one single sample in several weeks or months.

(c) *Suspended Sediment Load by Point-Integrating Method*: A limited number of suspended sediment load measurements are made by the point-integrating method. These measurements are included in the program (a) to check by comparison the "measured" sediment loads obtained by the depth-integrating method with the suspended sediment loads by the point-integrating method and (b) to obtain samples from which to determine particle-size distribution

pour la détermination de la concentration moyenne dans une section transversale;

(b) Le prélèvement d'échantillons uniques des sédiments en suspension selon une verticale choisie, afin de determiner la concentration des sédiments les journées où le débit des sédiments en suspension n'est pas mesuré;

(c) Un nombre restreint de mesures du débit des sédiments en suspension avec intégration en un point précis d'un cours d'eau, afin de vérifier les résultats des mesures avec intégration selon la profondeur et afin de déterminer la granulométrie des particules de sédiments dans une section transversale d'un cours d'eau;

(d) L'échantillonnage des matériaux du lit afin d'en déterminer la granulométrie;

(e) La mesure périodique du charriage.

Voici une brève description des éléments susmentionnés.

(a) *Mesure du débit des sédiments en suspension par intégration selon la profondeur*: La méthode permet de déterminer le débit des sédiments en suspension traversant toute une section transversale d'un cours d'eau, la concentration moyenne des sédiments en suspension dans la section transversale et la granulométrie des sédiments en suspension. C'est un fait connu que la concentration des sédiments en suspension augmente généralement avec la profondeur et qu'elle peut varier d'une rive à l'autre d'un cours d'eau.

Avec la méthode d'incréments de débits égaux (IDE), la mesure du débit des sédiments en suspension se fait en divisant une section transversale d'un cours d'eau en au moins cinq tranches où le débit est égal et en prélevant un échantillon représentatif dans chacune d'elles. Le débit des sédiments en suspension (r) pour chaque tranche se calcule en multipliant le débit (q) par la concentration des sédiments en suspension (c):

$$r = q\ c$$

Le débit des sédiments en suspension (R) pour la section transversale est la somme des débits des sédiments des cinq tranches:

$$R = r\ n = q_1c_1 + q_2c_2 + \ldots + q_nc_n$$

La méthode par intégration sur toute la profondeur est employée pour mesurer la concentration des sédiments en suspension. Elle suppose que l'échantillonneur se remplit à un rythme proportionnel au débit de l'eau et qu'en étant déplacé à une vitesse uniforme sur toute la verticale, il reçoit une partie du mélange eau-sédiments à tous les points de celle-ci.

(b) *Prélèvement d'échantillons uniques de sédiments en suspension sur une verticale choisie*: De tels échantillons, constitués chacun de deux bouteilles, sont prélevés régulièrement à l'aide d'appareils intégrateurs, selon la profondeur ou ponctuels, sur une verticale permanente d'une section transversale. Lorsque la concentration des sédiments est très forte, deux ou trois échantillonnages peuvent être effectués chaque jour, alors qu'un seul échantillon peut être prélevé à quelques jours d'intervalle lorsqu'elle est faible. Au cours des périodes où le débit est extrêmement faible, l'échantillonnage peut être limité à un échantillon toutes les quelques semaine ou tous les quelques mois.

(c) *Mesure du débit des sédiments en suspension par la méthode ponctuelle*: Un nombre limité de mesures du débit des sédiments en suspension sont faites avec cette méthode. On y a recours a) pour vérifier les valeurs du débit mesurées au moyen de la méthode précédente et b) pour obtenir des échantillons en vue de déterminer la granulométrie des sédiments en divers points de la

at different points in the cross section. The point-integrating sediment loads are computed by graphical methods.

The relationship between the suspended sediment concentration of the single vertical samples and the average concentration in the cross section determined from the suspended sediment load measurements is established for some stations. Using this relationship, the sediment concentrations of the single vertical samples are adjusted to reflect the average suspended sediment concentration in the cross section. These average sediment concentrations in the cross sections are plotted, and a smooth curve is drawn through the points to obtain a concentration graph. This graph represents the average suspended sediment concentration for the period of record. The daily mean concentrations are determined by automated procedures using a digitizer interfaced with a Digital minicomputer.

The daily suspended sediment loads are computed on the basis of stream discharges and the collected suspended sediment concentrations. The daily suspended sediment loads are expressed in tonnes per day and are obtained by multiplying the daily mean sediment concentration (mg/L), by the daily mean discharge (m^3/s), and the conversion factor, 0.0864.

(d) *Bed Material Sampling*: In a cross section, bed material samples are usually taken in the same sampling verticals as the suspended sediment samples. Often, additional bed material samples are collected at the water edge, the extreme water level or at other points in the cross section. The total number of bed material samples taken in a cross section usually varies between five and nine.

(e) *Bed Load Measurement*: There are several methods available for measurement of bed load (volumetric method, measurement by samplers, method of tracers, method of constricted cross section, study of sound waves, etc.). The measurement methods should be selected in accordance with river regime.

4. *Total Sediment Load*

Sediment transport may be divided into two categories: sediment maintained in suspension in the stream (suspended load), and sediment being carried along the streambed (bed load). To measure the total sediment load, each of these must be measured separately and then totalled. The total sediment load was not computed for this publication.

5. *Sediment Survey Laboratories*

The Water Resources Branch maintain sediment survey laboratories in New Westminster, British Columbia; Regina, Saskatchewan; Guelph, Ontario; and Moncton, New Brunswick. The laboratories are equipped to perform the following analyses:

(a) determination of sediment concentration by (1) filtration method, (2) evaporation method and (3) determination of total dissolved solids by evaporation method.
(b) particle-size distribution analysis by (1) bottom withdrawal tube method, (2) sieving and (3) hydrometer method.

Determination of the sediment concentration by the evaporation method is carried out by evaporating the water from the settled sediment sample, with the results being corrected for dissolved solids. The quantity of dissolved solids is determined by evaporating a portion of the decanted water of a sample. In the filtration method, the suspended sediment concentration of water samples is determined by utilizing Gooch crucibles with a Reeve Angel 934AH filter and a Millipore AP20 prefilter and a vacuum system.

section transversale. Cette méthode fait appel à des graphiques pour le calcul du débit des sédiments.

Le rapport entre la concentration des sédiments en suspension dans les échantillons prélevés sur une seule verticale et la concentration moyenne dans la section transversale, telle que déterminée à partir des mesures du débit des sédiments en suspension, est établi pour quelques stations. Il permet de corriger les concentrations mesurées à une seule verticale de manière à donner la concentration moyenne dans la section transversale. Les concentrations moyennes ainsi déterminées sont reportées sur un graphique, et une courbe lisse passant par les points marqués est tracée. Le graphique obtenu représente la concentration moyenne des sédiments en suspension pour la période de relevé. Les concentrations moyennes quotidiennes sont déterminées automatiquement à l'aide d'un convertisseur analogique-numérique relié à un mini-ordinateur numérique.

Les valeurs journalières du débit des sédiments en suspension sont calculées à partir du débit du cours d'eau et des concentrations des sédiments en suspension recueillis. Elles sont exprimées en tonnes par jour. On les détermine en multipliant la concentration moyenne journalière des sédiments (mg/L) par le débit moyen journalier (m^3/s) et par un facteur de conversion approprié, 0.0864.

(d) *Échantillonnage des matériaux du lit*: Dans une section transversale, les échantillons des matériaux du lit sont ordinairement prélevés aux mêmes verticales que ceux des sédiments en suspension. Souvent, des échantillons supplémentaires sont pris près des rives, là où le niveau d'eau est extrême et à d'autres points de la section transversale. Leur nombre total pour une section donnée varie ordinairement entre cinq et neuf.

(e) *Mesure du charriage*: La mesure peut se faire par plusieurs méthodes (méthode volumétrique, mesure à l'aide d'échantillonneurs, méthode des traceurs, méthode de la section transversale rétrécie, étude des ondes sonores, etc.). Le choix se fondera sur la nature du régime du cours d'eau.

4. *Débit solide total*

Il y a deux catégories de sédiments: les sédiments maintenus en suspension au sein de l'eau (sédiments en suspension), et les sédiments charriés sur le lit d'un cours d'eau (charriage de fond). Les deux types de sédiments doivent être mesurés séparément et leurs valeurs additionnées si on veut mesurer le débit total des sédiments. Toutefois, on ne l'a pas calculé aux fins de la présente publication.

5. *Laboratoires d'analyse*

La Direction des ressources en eau possède des laboratoires d'analyse des sédiments à New Westminster (Colombie-Britannique), Regina (Saskatchewan), Guelph (Ontario) et Moncton (Nouveau-Brunswick). Les laboratoires disposent des appareils nécessaires pour effectuer les analyses suivantes:

(a) la détermination de la concentration des sédiments par (1) filtration, (2) évaporation, et (3) détermination des matières dissoutes totales par évaporation.
(b) l'analyse granulométrique (1) par extraction des sédiments déposés dans un tube, (2) par l'emploi de tamis et (3) par l'utilisation d'un hydromètre.

La méthode par évaporation consiste à faire évaporer l'eau d'un échantillon de sédiments décanté et à corriger les résultats pour tenir compte des matières dissoutes. La quantité de celles-ci est déterminée en faisant évaporer une partie de l'eau de l'échantillon décanté. Dans la méthode par filtration, on utilise sous vide des creusets de Gooch munis d'un filtre Reeve Angel 934AH et d'un préfiltre Millipore AP20.

Particle-size analysis was carried out for some suspended sediment samples having gross weights in the range of 0.15 to 5 g using the Bottom Withdrawal Tube method. The particle-size distribution of the Bottom Withdrawal Tube method ranges from 0.002 to 1.000 mm. The Sieve analysis method may be used for samples with a large amount of material coarser than 0.062 mm.

The particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)
Clay	0.000 24 - 0.004
Silt	0.004 - 0.062
Sand	0.062 - 2.0
Gravel	2.0 - 64.0

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analyzed in distilled water. Chemical dispersion is not used for native-water analysis.

6. *Accuracy and Reliability of Field Data and Computed Results*

The overall accuracy and degree of reliability of the sediment data is dependent upon many factors. Some of the more important of these are:

(a) accuracy and reliability of streamflow records;
(b) regime of the river;
(c) type of sampling equipment used to collect the suspended sediment samples;
(d) frequency of suspended sediment discharge measurements;
(e) frequency of individual sampling;
(f) quality of the relationship between the average suspended sediment concentration in the cross section and the concentration of the individual samples;
(g) frequency and method of bed material sampling;
(h) frequency and method of bed load measurements;
(i) accuracy and reliability of the laboratory analysis;
(j) selected methods of computation of the suspended sediment discharge;
(k) interpretation and extrapolation of sediment records.

An assessment of the quality of the records can be made by an examination of the occurrence of the symbol (S) on the daily mean concentrations.

In general, data collected during open-water periods are more reliable than those collected during periods of ice conditions or those records obtained by estimation. Further, water level data collected utilizing a water-stage recorder are more reliable and accurate than those using a manual gauge only, especially for small or flashy streams.

Une analyse granulométrique a été effectuée pour certains échantillons de sédiments en suspension ayant un poids brut dans l'intervalle de 0.15 à 5 g par la méthode de la burette (extraction des sédiments déposés, à divers intervalles). La distribution de la taille des particules déterminée par cette méthode varie de 0.002 à 1.000 mm. La méthode de tamisage peut être employée pour les échantillons ayant une forte quantité de particules de taille supérieure à 0.062 mm.

La classification granulométrique qui est utilisée dans la présente publication est conforme aux recommandations faites par l'*American Geophysical Union Subcommittee on Sediment Terminology*. La classification est la suivante:

Classification	Taille (mm)
Argile	0.000 24 - 0.004
Limon	0.004 - 0.062
Sable	0.062 - 2.0
Gravier	2.0 - 64.0

La répartition granulométrique qui est fournie dans cette publication, n'est pas obligatoirement représentative de toutes les particules qui sont transportées par un cours d'eau donné. La plupart des matières organiques sont extraites de l'échantillon qui est ensuite soumis à une dispersion mécanique et chimique avant d'être analysé dans de l'eau distillée. La dispersion chimique ne sert pas à l'analyse de l'eau naturelle.

6. *Exactitude des données et des résultats*

L'exactitude des données sur les sédiments dépend de nombreux facteurs. On peut citer, parmi les plus importants:

(a) l'exactitude des données sur les débits;
(b) le régime d'un cours d'eau;
(c) le type d'appareil d'échantillonnage utilisé pour prélever les échantillons de sédiments en suspension;
(d) la fréquence des mesures du débit des sédiments en suspension;
(e) la fréquence des échantillonnages isolés;
(f) la qualité du rapport entre la concentration moyenne des sédiments en suspension dans une section transversale et la concentration des échantillons isolés;
(g) la fréquence des échantillonnages des matériaux de fond et la méthode utilisée;
(h) la fréquence des mesures du charriage de fond et la méthode utilisée;
(i) l'exactitude des analyses de laboratoire;
(j) les méthodes de calcul du débit des sédiments en suspension;
(k) l'interprétation et l'extrapolation des données sur les sédiments.

La qualité des données peut être évaluée d'après la fréquence d'utilisation du symbole (S), avec les données sur la concentration journalière moyenne.

En général, les données recueillies au cours des périodes d'eau libre sont plus sûres que celles qui sont obtenues au cours des périodes de glaces ou par estimation. De plus, les données sur le niveau des eaux qui sont mesurées à l'aide d'un limnigraphe sont plus certaines et plus exactes que celles qui sont mesurées à l'aide d'une jauge manuelle seulement, surtout dans le cas des petits cours d'eau ou des cours d'eau à crues très rapides.

METHOD OF TABULATION OF SEDIMENT DATA

For stations where the suspended sediment load was obtained, the following data are given where available:

1. The table of *Suspended Sediment Load* includes the daily mean discharge in cubic metres per second, the daily mean concentration in milligrams per litre, and the daily suspended sediment load in tonnes per day. The total monthly discharge and total monthly sediment load are also given for each month of record.

   For stations where the sediment load in tonnes per day are produced for complete or partial years, the *Total Suspended Load* for the period is given in the descriptive information.

   For stations where only suspended sediment concentrations are obtained, the table of *Suspended Sediment Load* will not be given.

   Additional descriptive information about the sediment station is also given and will indicate the following, where applicable.

   Location – the latitude and longitude co-ordinates of the location of the gauge are given. For stations where the gauge is located an appreciable distance from the discharge measurement section, these co-ordinates give the location of the discharge measurement section.

   Drainage area – refers to that area enclosed by a topographic divide such that direct surface runoff from precipitation would drain by gravity into the stream upstream from the location of the station.

   Type of Flow – where the flow is known to be natural, this is indicated. The flow of water in many river systems is affected by upstream regulation. In some cases, the extent of this regulation is not known and therefore is not indicated. However, where the regulation is known to be "appreciable", this is indicated as well as the year that the regulation began, if known.

   Type of Gauge – refers to the installation or method used to obtain water level or discharge data:

   (a) Manual – a non-recording type of gauge from which observations of stage normally are obtained once daily.

   (b) Recording – a water-stage recorder from which continuous water levels are obtained on an analog chart. For most International Gauging Stations located in the United States, water level records are obtained utilizing a digital recorder.

   International Gauging Station – on waters adjacent to the international boundary, certain gauging stations have been

PRÉSENTATION DES TABLEAUX DE DONNÉES SUR LES SÉDIMENTS

Pour les stations de mesure du débit des sédiments en suspension, les données suivantes sont présentées, pour autant qu'elles sont disponibles:

1. Le tableau concernant le *débit des sédiments en suspension* (The table of Suspended Sediment Load) donne le débit journalier moyen de l'eau, en mètres cubes par seconde, la concentration journalière moyenne, en milligrammes par litre, et le débit journalier des sédiments en suspension, en tonnes par jour. Chaque mois les données indiquent également les débits mensuels totaux de l'eau et des sédiments.

   Dans le cas des stations où le débit des sédiments, en tonnes par jour, est fourni pour une année complète ou une partie de l'année, le total pour la période est indiqué.

   Dans le cas des stations où seule la concentration des sédiments en suspension est obtenue, ce tableau est absent.

   Des renseignements descriptifs additionnels au sujet de la station sont également présentées. On peut y apporter les précisions suivantes:

   Emplacement (Location) – La latitude et la longitude de la station de jaugeage sont indiquées. Dans les cas où l'équipement de mesure est situé à une bonne distance de la section où le jaugeage est effectué, on indique les coordonnées de cette section.

   Superficie du bassin versant (Drainage area) – Désigne la zone délimitée par une ligne de faîte de sorte que l'écoulement de surface direct provenant des précipitations est entraîné par gravité vers le cours d'eau, en amont de la station.

   Type de débit (Type of Flow) – Un débit reconnu comme naturel est indiqué. Le débit de nombreux réseaux hydrographiques est modifié par une régularisation effectuée en amont. Dans certains cas, l'importance de cette régularisation n'est pas connue, et elle n'est donc pas indiquée. Cependant, quand on sait que la régularisation est d'une certaine importance, on l'indique, ainsi que l'année où elle a débuté (si elle est connue).

   Type de jauge (Type of Gauge) – Il s'agit des jauges ou des méthodes de jaugeage utilisées pour obtenir les données sur le niveau ou le débit d'un cours d'eau.

   (a) *Manuel* (Manual) – Indique qu'un appareil non enregistreur est employé pour obtenir normalement une fois par jour les données sur le niveau et le débit du cours d'eau.
   (b) *Enregistreuse* (Recording) – Indique qu'un limnigraphe permet de mesurer de façon continue le niveau des eaux qui est tracé sur un graphique. La plupart des stations internationales de jaugeage des États-Unis obtiennent les données sur le niveau des eaux à l'aide d'un enregistreur numérique.

   Station internationale de jaugeage (International Gauging Station) – Dans les eaux contiguës aux frontières, on a

designated as "International" and records are approved jointly. Differences between figures published herein and corresponding figures in United States Water Supply Papers are due to variations in automated data processing techniques.

Contributed Data – if data were supplied in their entirety or partially by an outside agency, the name of this co-operating agency is given.

Remarks – contains a statement pertaining to the sediment sample collection.

2. The table of *Instantaneous Suspended Sediment Concentration* for depth-integrating samples includes the following: Date and Time of the sample collection; Water Temperature; Instantaneous Discharge at time of sampling, (if not available the daily mean discharge is given and indicated by a symbol); Single Sampling Vertical location; Dissolved Solids; Percent Sand, Silt and Clay; Type of Sampler used. The particle-size distribution in percent in millimetres and the percent Sand, Silt and Clay, is given where available.

The Single Sampling Vertical Location is defined by many symbols, which are as follows, where applicable:

DIGITS - 5, 14, 130, etc., is the distance in metres from the initial point
WERB - Water's Edge RIGHT Bank
WELB - Water's Edge LEFT Bank
1QRB - One-quarter the distance FROM the RIGHT Bank
3QRB - Three-quarters the distance FROM the RIGHT Bank
1QLB - One-quarter the distance FROM the LEFT Bank
3QLB - Three-quarters the distance FROM the LEFT Bank
MID - MID STREAM
MULT - Composite sediment measurement

For the suspended sediment measurements, the Date; Time; Water Temperature at time of sampling; Discharge computed for each sampling panel; Concentration; Sampling Vertical; Dissolved Solids; Percent Sand, Silt and Clay; Type of Sampler used; and the Particle-size distribution of the Sand, Silt and Clay, in percent is given where available.

3. The table of *Split Vertical Suspended Sediment* for depth-integrating samples includes the following: Date and Time of the sample collection; Water Temperature; Instantaneous Discharge at time of sampling, (if not available the daily mean discharge is given and indicated by a symbol); Sampling Vertical; Depth of Sample (giving the depth sampled from and the depth sampled to); Concentration of Sample, in milligrams per litre, Dissolved solids, in milligrams per litre; and the Particle-size distribution in percent in millimetres and the percent Sand, Silt and Clay are also given.

désigné certaines stations comme «internationales», et les données obtenues sont approuvées par les pays concernés. Les différences entre les chiffres publiés dans la présente publications et dans les *United States Water Supply Papers* sont dues à des variantes dans les techniques de traitement automatique des données.

Données fournies (Contributed Data) – Lorsqu'un organisme extérieur a fourni toutes les données ou une partie des données, son nom est indiqué.

Remarques (Remarks) – Renseignements au sujet du prélèvement des échantillons de sédiments.

2. Le tableau des *concentrations instantanées de sédiments en suspension* (The table of Instantaneous Suspended Sediment Concentration) pour les échantillons obtenus par intégration selon la profondeur comprend: la date et l'heure de prélèvement; la température de l'eau; son débit instantané au moment de l'échantillonnage (s'il n'est pas connu, le débit journalier moyen, avec symbole); l'emplacement de la verticale d'échantillonnage; la concentration des matières dissoutes; les pourcentages de sable, de limon et d'argile; le type d'échantillonneur employé; et la granulométrie du sable, du limon et de l'argile, en pourcentage en millimètres et le pourcentage des particules est donné lorsqu'il est disponible.

Le site vertical d'échantillonnage unique est défini par plusieurs symboles dont les suivants dans certains cas :

CHIFFRE - 5, 14, 130, etc., désigne la distance en mètres à partir du point initial
WERB - Bord de l'eau, rive DROITE
WELB - Bord de l'eau, rive GAUCHE
1QRB - Un quart de la distance À PARTIR de la rive DROITE
3QRB - Trois quarts de la distance À PARTIR de la rive DROITE
1QLB - Un quart de la distance À PARTIR de la rive GAUCHE
3QLB - Trois quarts de la distance À PARTIR de la rive GAUCHE
MID - MI-DÉBIT
MULT - Mesure des sédiments mixtes

Pour les mesures des sédiments en suspension, la date, l'heure, la température de l'eau au moment de l'échantillonnage, le débit calculé pour chaque tranche de la section d'échantillonnage, la concentration et la verticale d'échantillonnage, la concentration des matières dissoutes; les pourcentages de sable, de limon et d'argile; le type d'échantillonneur employé; et la granulométrie du sable, du limon et de l'argile, en pourcentage des particules est donnée lorsqu'elle est disponible.

3. Le tableau des *sédiments en suspension fractionnés pris à la verticale* (The Table of Split Vertical Suspended Sediment) pour les échantillons obtenus par intégration selon la profondeur comprend les éléments suivants : la date et l'heure de l'échantillonnage; la température de l'eau; le débit instantané au moment de l'échantillonnage (s'il n'est pas disponible, on donne le débit moyen quotidien et on l'indique par un symbole), la verticale d'échantillonnage; la profondeur (donner la profondeur à laquelle l'échantillon a été pris); et la profondeur à laquelle l'échantillon a été attributé la concentration des échantillons, en milligrammes par litre; la concentration des matières dissoutes, en milligrammes par litre; la distribution des sédiments de la taille de particules en pourcentage en millimètres; le pourcentage de sable, de limon et d'argile.

4. The table of *Point Integrating Particle-size of Suspended Sediment* includes the following: Date and Time of the sample collection; Water Temperature; Panel Discharge for each sampling vertical; Sampling Vertical; Depth of Sample; Concentration of Sample, in milligrams per litre; Dissolved Solids in milligrams per litre, and the Particle-size distribution in percent in millimetres and the percent Sand, Silt and Clay are also given.

5. The table of *Bed Load Particle-size* includes the following: Date and Time of the sample collection; Panel Discharge; Sampling Vertical and the Type of Sampler used in the collection of the sample and the Particle-size distribution, in percent in millimetres, for each sample of bed load collected.

6. The table of *Bed Material Particle-size* includes the following: Date and Time of the sample collection; Panel Discharge; Sampling Vertical and the Type of Sampler used in the collection of the sample and the Particle-size distribution, in percent in millimetres, for each sample of bed material collected.

7. The table of *Historical Sediment Data Summary* gives the following, for the period of record, where applicable.

   (a) Record Summary
   (b) Type of Sampling
   (c) Sampled Concentration, maximum and minimum
   (d) Suspended Sediment Load, maximum daily and the total, for the period, in tonnes
   (e) Summary, including mean load, the historical mean load and the standard error of the mean in percent.

(a) The *Record Summary* gives the months of record that data are available. If the complete month is on file the symbol (C) is shown, while partial months of data are indicated by the symbol (P). Months with no data on file are indicated by (-).

(b) The *Type of Sampling* indicates the type of sampling method used to collect the sediment samples during the period of operation. If the samples were collected by manual methods this is indicated by "MANUAL." If the samples were collected by a pump sampler or some other automatic method this is indicated by "AUTO." If both manual and automatic sampling methods were used this is indicated by "DUAL."

(c) The *Sampled Concentration* gives the maximum and minimum concentration, in milligrams per litre, and the date of collection for each year of record. The extreme recorded for the period of record is indicated by an asterisk (*). If more than one maximum or minimum, of the same value, occurred during the year only the date of the first occurrence is identified by the asterisk.

(d) The *Suspended Sediment Load* gives the maximum daily load, in tonnes, and the date of occurrence. The extreme recorded is indicated by an asterisk (*). The Total for the Period gives

4. Le tableau de la *granulométrie des échantillons ponctuels et intégrés des sédiments en suspension* (The table of Point Integrating Particle-size of Suspended Sediment) comprend: la date et l'heure de prélèvement de l'échantillon, la température de l'eau, le débit de la tranche de la section pour chaque verticale d'échantillonnage, la verticale d'échantillonnage, la profondeur de l'échantillon, la concentration des échantillons, en milligrammes par litre, la concentration des matières dissoutes, en milligrammes par litre, et granulométrie en millimètres et en pourcentage du sable, du limon et de l'argile.

5. Le tableau de la *granulométrie des sédiments charriés* (The table of Bed Load Particle size) comprend: la date et l'heure de prélèvement de l'échantillon, le débit de la tranche de la section, la verticale d'échantillonnage et le type d'échantillonneur employé et le pourcentage en millimètres des particules pour chaque échantillon recueilli du charriage.

6. Le tableau de la *granulométrie des matériaux du lit* (The table of Bed Material Particle-size) comprend: la date et l'heure de prélèvement de l'échantillon, le débit de la tranche de la section, la verticale d'échantillonnage et le type d'échantillonneur employé et le pourcentage en millimètres des particules pour chaque échantillon recueilli.

7. Le tableau du *sommaire chronologique des données sur les sédiments* (The table of Historical Sediment Data Summary) donne, pour la période pour laquelle les données sont disponibles, les renseignements suivants lorsque de telles données existent:

   (a) Le sommaire du relevé
   (b) Le type d'échantillonnage
   (c) Les concentrations mesurées, maximum et minimum
   (d) Le débit des sédiments en suspension, maximum quotidien et le total pour la période en tonnes
   (e) Résumé, comprend le débit moyen, le débit moyen chronologique et l'erreur type de la moyenne en pourcentage.

(a) Le *sommaire du relevé* donne les mois de relevé pour lesquels les données sont disponibles. Le symbole (C) indique que les données sont disponibles pour tout le mois. Le symbole (P) indique que ces données ne sont disponibles que pour une partie du mois. Enfin, on indique par (-) les mois qui n'ont pas de données.

(b) Le *type d'échantillonnage* indique le type de méthode d'échantillonnage que l'on utilise dans le prélèvement des échantillons de sédiments pendant la période d'exploitation. Si le prélèvement des échantillons se fait par des méthodes manuelles, on indique «MANUEL». Si le prélèvement des échantillons se fait au moyen d'échantillonneur à pompe ou par quelque autre méthode automatique, on indique «AUTO». Si on utilise à la fois des méthodes d'échantillonnage manuelles et automatiques, on indique «DOUBLE».

(c) Pour les *concentrations mesurées* (Sampled Concentration), on donne la concentration maximale et la concentration minimale, en milligrammes par litre, et leur date d'obtention pour chaque année de relevé. La valeur extrême enregistrée est indiquée par un astérisque (*). Si la valeur du maximum ou du minimum a été mesurée plus d'une fois pendant l'année, on signale, par l'astérisque, seulement la date de la première mesure.

(d) Sous le *débit des sédiments en suspension* (Suspended Sediment Load), on donne le débit journalier maximal, en tonnes, et sa date de mesure. Le débit extrême enregistré est indiqué

the total load for the period or year, in tonnes. The extreme recorded is also indicated by an asterisk (*). If more than one maximum or minimum, of the same value, occurred during the year only the date of the first occurrence is identified by the asterisk. A load which has been revised since the previous publication is marked with the symbol (R) for Revision.

(e) The *Summary* gives the *Mean Load* and the *Historical Mean Load* in tonnes.

The *Standard Error of the Mean* % is calculated using the following equations:

$$SEM = \frac{S}{\bar{x}\sqrt{n}} \times 100\%$$

and

$$S = \sqrt{\frac{\Sigma (x - \bar{x})^2}{n - 1}}$$

where SEM is the Standard Error of the Mean.

- S is the Standard Deviation of the annual mean loads.
- x is the annual Mean Load variable.
- $\bar{x}$ is the Historical Mean Load or the arithmetic mean of the annual Mean Loads.
- n is the number of years for which there is an annual Mean Load.

For stations with only instantaneous samples, this table will not include the *Suspended Sediment Load* or the statistical information in the *Summary*.

DEFINITION OF TERMS

The following definitions are given to clarify the terms used in this publication:

Automatic pump sample is an individual water-sediment mixture pumped from a fixed point in a stream.

Bed load is that material moving in almost continuous contact with the streambed, being rolled or pushed along the bottom by the force of the water.

Bed material is the sediment mixture of which the streambed is composed.

Daily load is the suspended sediment load expressed in tonnes for a particular day. The daily load is obtained by multiplying the daily mean sediment concentration (mg/L) by the daily mean discharge (m^3/s) and the conversion factor, 0.0864.

Daily mean concentration is a time-weighted mean value and is computed from a manually constructed concentration curve. The mean concentration value may be determined arithmetically or graphically. The arithmetic mean is obtained either by (1) selecting values from the concentration graph that represents uniform intervals of time and taking the arithmetic average or by (2) selecting values from the graph that represent unequal intervals of time and weighing these values by the

par un astérisque (*). Le débit total pour la période ou pour l'année est indiqué. La valeur extrême est également signalée par un astérisque (*). Si la valeur du maximum ou du minimum a été mesurée plus d'une fois pendant l'année, on signale, par l'astérisque, seulement la date de la première mesure. La lettre R indique qu'une valeur du débit a été révisée depuis la dernière publication.

(e) Le *résumé* donne le *débit moyen* et le *débit moyen chronologique*, en tonnes.

L'*erreur-type de la moyenne* % (Standard Error of the Mean), est calculée à l'aide des équations suivantes:

$$SEM = \frac{S}{\bar{x}\sqrt{n}} \times 100\%$$

et

$$S = \sqrt{\frac{\Sigma (x - \bar{x})^2}{n - 1}}$$

où SEM est l'erreur type de la moyenne.

- S est l'écart type des débits moyens annuels.
- x est la variable du débit moyen annuel.
- $\bar{x}$ est le débit moyen chronologique ou la moyenne arithmétique des débits moyens annuels.
- n est le nombre d'années où il y a un débit moyen annuel.

Dans le cas des stations ne prélevant que des échantillons instantanés, ce tableau ne donnera pas le *débit des sédiments en suspension* ni les données statistiques du *résumé*.

DÉFINITION DES TERMES

Les définitions suivantes sont présentées afin de faciliter la compréhension des termes utilisés dans la présente publication:

Échantillonnage automatique à l'aide d'une pompe (Automatic pump sample): Prélèvement d'un mélange de sédiments et d'eau au moyen d'une pompe fonctionnant automatiquement, en un point précis d'un cours d'eau.

Charriage (Bed load): Matières roulées ou poussées sur le fond sous l'action de l'eau, mais restant en contact presque permanent avec le fond.

Matériau du lit (Bed material): Mélange de sédiments composant le lit d'un cours d'eau.

Débit journalier des sédiments en suspension (Daily load): Débit des sédiments en suspension exprimé en tonnes par jour, pour une journée donnée. On l'obtient en multipliant la concentration journalière moyenne des sédiments (mg/L) par le débit journalier moyen de l'eau (m^3/s) et le facteur de conversion 0.0864.

Concentration journalière moyenne (Daily mean concentration): Moyenne pondérée en fonction du temps, calculée à partir d'une courbe de la concentration établie manuellement. La valeur de la concentration moyenne peut être déterminée arithmétiquement ou graphiquement. Pour la déterminer arithmétiquement, on peut, soit choisir sur la courbe des valeurs représentant des intervalles uniformes de temps et faire la moyenne arithmétique, soit choisir sur cette courbe

time intervals represented by the concentrations. For graphical explanation refer to *Office Procedures for Sediment Data Computations* and for the automated graphical explanation refer to *Automated Hydrometric Computation Procedures.*

Depth-integrated sediment sample is a suspended sediment sample collected at a single vertical in a cross section in a sampler moving vertically at a constant transit rate and represents an average sample for that part of the depth ranging from the water surface to about nine centimetres above the streambed.

Instantaneous suspended sediment sample is a sample collected at a fixed vertical in a river cross section.

Measured suspended sediment discharge is the suspended sediment discharge that can be computed from stream discharge and the concentration of sediment determined from depth-integrated sediment samples.

Particle-size analysis is the process of determining the size distribution of particles in a sediment sample.

Point-integrated sediment sample is a sample of the water-sediment mixture taken over a specified period of time at a fixed point and depth in a river cross section.

Sediment is fragmental material which has been deposited, eroded or transported by a flowing stream.

Sediment hydrograph is a graph showing the variation of suspended sediment concentration or sediment discharge with respect to time.

Single sample is a sample taken at a selected permanent vertical in a cross section. Two bottles of water-sediment mixture make up each single sample.

Single sampling vertical is a selected permanent vertical in a cross section in which single suspended sediment samples are collected.

Suspended sediment is sediment that moves in suspension in water either as a colloid or through the influence of the upward component of turbulent currents.

Suspended sediment concentration is the ratio of the weight of dry solids in a water-sediment mixture to the volume of the mixture. The units of this ratio are "milligrams per litre" (mg/L).

Suspended sediment load is the quantity of suspended sediment transported through a cross section per unit of time.

des valeurs qui représentent des intervalles inégaux de temps et pondérer ces valeurs en fonction des intervalles de temps correspondants. En ce qui concerne les méthodes graphiques, consulter *Méthodes de bureau pour les calculs de données sur les sédiments* et, pour la méthode automatisée, *Automated Hydrometric Computation Procedures.*

Échantillon intégré sur toute la profondeur (Depth integrated sediment sample): Échantillon des sédiments en suspension prélevé sur une verticale précise d'une section transversale d'un cours d'eau à l'aide d'un échantillonneur se déplaçant verticalement à une vitesse constante; il représente un échantillon moyen des matières en suspension entre la surface de l'eau et environ 9 cm du fond.

Échantillon instantané de sédiments en suspension (Instantaneous suspended sediment sample): Échantillon prélevé à une verticale précise d'une section transversale d'un cours d'eau.

Débit mesuré des sédiments en suspension (Measured suspended sediment discharge): Débit des sédiments en suspension qui peut être calculé à partir du débit du cours d'eau et de la concentration des sédiments déterminée à partir d'échantillons intégrés sur toute la profondeur.

Analyse granulométrique (Particle-size analysis): Détermination de la répartition de la taille des particules dans un échantillon de sédiments.

Échantillon ponctuel et intégré (Point-integrated sediment sample): Échantillon constitué d'un mélange d'eau et de sédiments, prélevé au cours d'une période de temps donnée en un point précis d'une section transversale d'un cours d'eau et à une profondeur donnée.

Sédiments (Sediment): Matières fragmentaires qui ont été déposées, érodées ou transportées par un cours d'eau.

Hydrogramme des sédiments (Sediment hydrograph): Graphique représentant la variation de la concentration des sédiments en suspension ou du débit des sédiments en fonction du temps.

Échantillon unique (Single sample): Échantillon prélevé sur une verticale permanente particulière dans une section transversale. Deux bouteilles du mélange eau-sédiments constituent un seul échantillon.

Verticale d'échantillonnage unique (Single sampling vertical): Verticale permanente d'une section transversale où des échantillons uniques de sédiments en suspension sont prélevés.

Sédiments en suspension (Suspended sediment): Matériaux qui se déplacent au sein de l'eau, soit sous forme colloïdale, soit sous l'influence des forces ascendantes des courants turbulents.

Concentration des sédiments en suspension (Suspended sediment concentration): Rapport entre le poids des matières solides sèches contenues dans un mélange eau-sédiments et le volume du mélange. Les unités employées sont les «milligrammes par litre» (mg/L).

Débit des sédiments en suspension (Suspended sediment load): Quantité de sédiments en suspension transportés par unité de temps à travers une section transversale d'un cours d'eau.

Total sediment load is the sum of the suspended sediment load and the bed load.

Unmeasured sediment load is the difference between total sediment load and measured suspended sediment load.

DEFINITION OF SYMBOLS

Symbols are located at the bottom of the data sets under the headings Time, Discharge, Concentration, and Dissolved Solids. The symbols with their definitions are listed below.

Time Symbol

E – *Estimated* – indicates estimated data. It indicates that the time of sample collection is estimated by some indirect method or comparison with other stream data.

Discharge Symbol(s)

A – *Manual Gauge* – indicates that one or more manual gauge observations per day were obtained and used as the mean for the day for a gauging station equipped with a recording gauge. This symbol is used during open-water periods only.

B – *Ice Conditions* – indicates the presence of ice at the gauging station. For gauging stations where discharge data are obtained, this symbol indicates that the presence of ice has affected the stage-discharge relationship.

E – *Estimated* – indicates estimated data. It indicates that the values recorded are estimated by some indirect method such as interpolation, extrapolation, comparison with other streams or by comparison with meteorological data.

H – *Daily Mean Discharge* – is the mean discharge for a particular day, usually referred to as the "daily mean discharge".

V – *Daily Mean; Manual Gauge* – is the mean discharge for a particular day and indicates that one or more manual gauge observations per day were obtained and used as the mean for the day.

W – *Daily Mean; Ice Conditions* – is the mean discharge for a particular day and indicates that the presence of ice has affected the stage-discharge relationship.

Y – *Daily Mean; Estimated* – is the mean discharge for a particular day and indicates that the value has been estimated by some indirect method.

Concentration Symbol(s)

C – *Coarse Material Present* – indicates that during the laboratory analysis coarse material (sand) was observed in the sediment sample.

Débit total des sédiments (Total sediment load): Somme du débit des sédiments en suspension et du débit charrié.

Débit non mesuré des sédiments (Unmeasured sediment load): Différence entre le débit total des sédiments et le débit mesuré des sédiments en suspension.

DÉFINITION DES SYMBOLES

Les symboles figurent au bas des séries de données et sont traités sous les rubriques Temps, Débit, Concentration, Matières solides en solution. Ces symboles avec leurs définitions sont donnés dans la liste ci-après.

Symbole du temps :

E – *Estimative* – Indique des données estimatives, c'est-à-dire que l'heure de prélèvement de l'échantillon est évaluée de façon indirecte ou par comparaison avec d'autres données sur les cours d'eau.

Symbole(s) du débit :

A – *Turbidisonde simple* – Indique qu'on a effectué à une station de jaugeage dotée d'une turbidisonde enregistreuse au moins une observation par jour à l'aide d'une turbidisonde simple et qu'on s'en est servi comme moyenne pour la journée en question. Le symbole n'est employé qu'au cours des périodes d'eau libre.

B – *Glaces* – Indique la présence de glaces à la station de jaugeage, qui ont faussé la relation hauteur-débit.

E – *Estimative* – Indique des données estimatives, c'est-à-dire que les valeurs enregistrées sont évaluées de façon indirecte, par exemple par interpolation, extrapolation, ou par comparaison avec d'autres cours d'eau ou avec des données météorologiques.

H – *Débit journalier moyen* – Débit moyen pour une journée donnée, ordinairement appelé «débit journalier moyen».

V – *Débit journalier moyen; turbidisonde simple* – Débit moyen pour une journée donnée; indique qu'on a effectué au moins une observation par jour et qu'on s'en est servi comme moyenne pour la journée en question.

W – *Débit journalier moyen; glaces* – Débit moyen pour une journée donnée; indique que la présence de glaces a faussé la relation hauteur-débit.

Y – *Débit journalier moyen; estimative* – Débit moyen pour une journée donnée; indique que la valeur a été évaluée de façon indirecte.

Symbole(s) de la concentration :

C – *Sable grossier présent* – Indique qu'au cours de l'analyse en laboratoire on a observé du sable grossier dans un échantillon de sédiments.

F – ***Sample Bottle Filled*** – indicates that during the laboratory analysis it was observed that the sample bottle had been filled to capacity.

G – ***Organic Material Present*** – indicates that during the laboratory analysis it was observed that organic material was collected in the sample bottle.

Single Vertical Symbol(s)

K – ***Sampling vertical not at the regular single vertical from LEFT bank*** – indicates that a sample was collected at a location from the left bank, in a cross-section, which is not at the regular single vertical.

L – ***Sediment measurement vertical not at the regular measurement cross-section from LEFT bank*** – indicates that the measurement sampling verticals were established from the left bank, in a cross-section which is not the regular measurement cross-section.

M – ***Sediment measurement vertical*** – indicates that the sampling vertical is one of several, usually five, and represents a panel width. The instantaneous discharge represents the flow for a panel width.

X – ***Sampling vertical not at the regular single vertical*** – indicates that a sample was collected at a location, in a cross-section, which is not at the regular single vertical. The location of the regular single vertical is given at the bottom of the Instantaneous Suspended Sediment data.

Z – ***Sediment measurement vertical not at the regular measurement cross-section*** – indicates that a suspended sediment measurement was collected in a cross-section which is not the regular measurement corss-section.

Note: If no symbol is present the samples have then been collected at the regular Single Vertical.

F – ***Flacon d'échantillonnage rempli*** – Indique qu'au cours de l'analyse en laboratoire on a observé que le flacon d'échantillonnage avait été complètement rempli.

G – ***Substance organique présente*** – Indique qu'au cours de l'analyse en laboratoire on a observé qu'une substance organique a été prélevée dans le flacon d'échantillonnage.

Symbole(s) de la verticale unique :

K – ***Verticale d'échantillonnage à l'extérieur de la verticale unique habituelle à partir de la rive GAUCHE*** – Indique qu'un échantillon a été prélevé à un endroit à partir de la rive gauche, dans une section transversale, mais à l'extérieur de la verticale unique habituelle.

L – ***Verticale de mesure des sédiments, à l'extérieur de la section transversale de mesure habituelle à partir de la rive GAUCHE*** – Indique que les verticales de mesure d'échantillonnage ont été établies à partir de la rive gauche, dans un section transversale à l'extérieur de la section transversale de mesure habituelle.

M – ***Verticale de mesure des sédiments*** – Indique que la verticale d'échantillonnage est l'une de plusieurs verticales, en général cinq, et qu'elle représente la dimension d'une tranche. Le débit instantané représente le débit relatif à la dimension d'une tranche.

X – ***Verticale d'échantillonnage à l'extérieur de la verticale unique habituelle*** – Indique qu'un échantillon a été prélevé à un endroit, dans une section transversale, mais à l'extérieur de la verticale unique habituelle. L'endroit de la verticale unique habituelle est donné à la fin des données sur les sédiments en suspension instantanés.

Z – ***Verticale de mesure des sédiments, à l'extérieur de la section transversale de mesure habituelle*** – Indique qu'une mesure de sédiments en suspension a été prise dans une section transversale à l'extérieur de la section transversale de mesure habituelle.

Note : S'il n'y a pas de symbole, cela indique que les échantillons ont été prélevés à la verticale unique habituelle.

EQUIVALENTS OF MEASURE

The following list of convenient equivalents of measure includes the relationship between imperial units and the International System of Units (SI).

1 inch equals 2.54 cm (centimetres)
1 foot equals 0.3048 m (metre)
1 statute mile equals 1.6093 km (kilometres)

1 cm (centimetre) equals 0.393 70 inch
1 m (metre) equals 3.2808 feet
1 km (kilometre) equals 0.621 37 mile

1 acre equals 43 560 square feet
1 acre equals 0.404 69 ha (hectare)
1 square mile equals 640 acres
1 square mile equals 2.5900 km^2 (square kilometres)
1 square mile equals 259.0 ha (hectares)

1 ha (hectare) equals 10 000 m^2 (square metres)
1 ha (hectare) equals 2.4710 acres
1 km^2 (square kilometre) equals 0.386 10 square mile

1 cubic foot equals 6.2288 imperial gallons
1 imperial gallon equals 4.546 09 L (litres)
1 imperial gallon equals 1.2010 U.S. gallons
1 U.S. gallon equals 0.133 68 cubic foot
1 cubic foot equals 0.028 317 m^3 (cubic metre)
1 m^3 (cubic metre) equals 35.315 cubic feet
1 dam^3 (cubic decametre) equals 1000 m^3 (cubic metres)
1 dam^3 (cubic decametre) equals 1 mm (millimetre) over 1 km^2 (square kilometre)

1 cubic foot per second for one day equals 1.9835 acre-feet
1 cubic foot per second for one day covers one square mile to a depth of 0.037 19 inch
1 acre-foot equals 1.2335 dam^3 (cubic decametres)
1 m^3/s (cubic metre per second) for one day equals 86.4 dam^3 (cubic decametre)
1 m^3/s (cubic metre per second) for one day covers one square kilometre to a depth of 0.0864 m (metre)

1 foot per second equals 0.6818 mile per hour
1 mile per hour equals 1.467 feet per second
1 m/s (metre per second) equals 3.6 km/h (kilometre per hour)
1 km/h (kilometre per hour) equals 0.2778 m/s (metre per second)

1 cubic foot per second equals 0.028 317 m^3/s (cubic metre per second)
1 m^3/s (cubic metre per second) equals 35.315 cubic feet per second

1 pound equals 0.453 59 kg (kilogram)
1 kg (kilogram) equals 2.2046 pounds

1 short ton (2000 pounds) equals 0.907 18 t (tonne)
1 t (tonne) equals 2204.6 pounds

degrees Celsius = 5/9 (degrees Fahrenheit - 32)
degrees Fahrenheit = 9/5 (degrees Celsius) + 32

ÉQUIVALENCES DES UNITÉS DE MESURE

Voici une liste des unités de mesure impériales et leurs équivalences dans le Système international d'unités (SI).

1 pouce vaut 2.54 cm (centimètres)
1 pied vaut 0.3048 m (mètre)
1 mille terrestre vaut 1.6093 km (kilomètre)

1 cm (centimètre) vaut 0.393 70 pouce
1 m (mètre) vaut 3.2808 pieds
1 km (kilomètre) vaut 0.621 37 mille

1 acre vaut 43 560 pieds carrés
1 acre vaut 0.404 69 ha (hectare)
1 mille carré vaut 640 acres
1 mille carré vaut 2.5900 km^2 (kilomètres carrés)
1 mille carré vaut 259.0 ha (hectares)

1 ha (hectare) vaut 10 000 m^2 (mètres carrés)
1 ha (hectare) vaut 2.4710 acres
1 km^2 (kilomètre carré) vaut 0.386 10 mille carré

1 pied cube vaut 6.2288 gallons impérials
1 gallon impérial vaut 4.546 09 L (litres)
1 gallon impérial vaut 1.2010 gallon américain
1 gallon américain vaut 0.133 68 pied cube
1 pied cube vaut 0.028 317 m^3 (mètre cube)
1 m^3 (mètre cube) vaut 35.315 pieds cubes
1 dam^3 (décamètre cube) vaut 1000 m^3 (mètres cubes)
1 dam^3 (décamètre cube) vaut 1 mm (millimètre) qui couvre 1 km^2 (kilomètre carré)

1 pied cube par seconde pendant un jour vaut 1.9835 acre-pied
1 pied cube par seconde pendant un jour couvre un volume d'un mille carré par 0.037 19 pouce
1 acre-pied vaut 1.2335 dam^3 (décamètre cube)
1 m^3/s (mètre cube par seconde) pour un jour vaut 86.4 dam^3 (décamètres cubes)
1 m^3/s (mètre cube par seconde) pour un jour couvre un kilomètre carré à une profondeur de 0.0864 m (mètre)

1 pied par seconde vaut 0.6818 mille par heure
1 mille par heure vaut 1.467 pied par seconde
1 m/s (mètre par seconde) vaut 3.6 km/h (kilomètres par heure)
1 km/h (kilomètre par heure) vaut 0.2778 m/s (mètre par seconde)

1 pied cube par seconde vaut 0.028 317 m^3/s (mètre cube par seconde)
1 m^3/s (mètre cube par seconde) vaut 35.315 pieds cubes par seconde

1 livre vaut 0.453 59 kg (kilogramme)
1 kg (kilogramme) vaut 2.2046 livres

1 tonne courte (2000 livres) vaut 0.907 18 t (tonne)
1 t (tonne) vaut 2204.6 livres

degrés Celsius = 5/9 (degrés Fahrenheit - 32)
degrés Fahrenheit = 9/5 (degrés Celsius) + 32

CO-OPERATION AND ACKNOWLEDGMENTS

Co-operative undertakings with other agencies form an important part of the activities of the Water Survey of Canada. Close co-operation has been maintained with public agencies and private organizations concerned with water resources. Data have been mutually exchanged and suspended sediment collection operations have been facilitated by the assistance received from a number of organizations.

On waters adjacent to the International Boundary, certain sediment stations are maintained by Canada (or the United States) under agreement with the United States (or Canada) and the records are collected and compiled in a manner equally acceptable to both countries. These stations are designated as "International Gauging Stations" in this publication.

For the valuable assistance and co-operation received in obtaining sediment survey records, the Water Survey of Canada is indebted to other federal and provincial organizations which are noted as contributing agencies in the summary for the year. A list of these agencies may be found in the *Sediment Data Reference Index*.

REVISIONS

A number of corrections or revisions have been made to previously published data. Many of these were required because of typographical or computational errors which were exposed when the data were stored on magnetic tape and monthly means were re-calculated by computer. Other errors were discovered or different interpretations of basic data were made during the systematic review of historical streamflow data.

Revisions to daily discharges or sediment data are not published at present. However, those stations where a systematic review has been conducted are identified in the Surface Water Data Reference Index publication. The Historical Streamflow Summary publications contain revisions to monthly and annual mean discharges, and annual extremes of discharge. Revisions, corrections or additions made to discharges and sediment after January 1, 1980, are indicated by an "R" symbol in the data summaries. Detailed information on revisions to historical data is available from the appropriate Regional Chief.

COOPÉRATION ET REMERCIEMENTS

Le travail entrepris en coopération avec d'autres organismes représente une partie importante des activités de la Division des relevés hydrologiques du Canada. On a maintenu une étroite collaboration avec les organismes, publics ou privés, qui s'intéressent aux ressources en eau. On a échangé des données sur les sédiments, et l'assistance fournie par certains organismes a facilité les opérations d'échantillonnage des sédiments en suspension.

Dans les eaux adjacentes à la frontière internationale, les stations dépendent du Canada ou des États-Unis selon l'accord intervenu entre les deux pays, et les relevés sont faits et compilés de façon à satisfaire les deux pays. Ces stations sont nommées «Stations internationales de jaugeage» dans la présente publication.

La Division des relevés hydrologiques du Canada est redevable à plusieurs organismes fédéraux et provinciaux, dont les noms apparaissent dans le sommaire de l'année, de l'aide et de la collaboration qu'ils lui ont apportées pour l'obtention des données sur les sédiments. On trouvera également les noms des organismes qui ont fourni des données dans l'*Index de référence des données sur les sédiments*.

RÉVISIONS

On a corrigé ou révisé des données déjà publiées. Il a été nécessaire d'effectuer plusieurs corrections, car on a relevé des erreurs typographiques ou de calcul lorsqu'on a enregistré les données sur rubans magnétiques et qu'on a recalculé les moyennes mensuelles à l'aide d'un ordinateur. On a aussi relevé d'autres erreurs ou fait des interprétations différentes de certaines données de base au cours de la révision systématique des données historiques sur le débit.

Les corrections apportées aux débits journaliers ou aux données sur les sédiments ne sont pas publiées, du moins pour le moment. Cependant, les stations où on a effectué une révision systématique sont indiquées dans l'*Index de référence des données sur les eaux de surface*. Les publications intitulées *Sommaire chronologique de l'écoulement* contiennent des données révisées sur les débits mensuels et annuels moyens et les extrêmes annuels du débit. Les révisions, corrections ou ajouts apportés aux données sur les débits et sur les sédiments après le 1er janvier 1980 sont indiqués par la lettre R dans les résumés des données. On peut obtenir plus de détails sur les révisions en s'adressant au chef régional concerné.

ANDERSON CREEK NEAR NELSON - STATION NO. 08NJ130

LOCATION: LAT 49 30 05 N LONG 117 15 35 W
DRAINAGE AREA: 9.07 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE VERTICAL SAMPLING (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	PERCENT SILT	PERCENT CLAY
JAN 04	12:57	1.0	0.046	WELB	DIP	1	70														
FEB 07	13:16	1.5	0.038	WELB	DIP	1	70														
MAR 06	13:17	2.0	0.039	WELB	DIP	1	83														
APR 25	10:15	3.0	0.425	WELB	DIP	1	82														
MAY 24	12:33	5.0	0.306	WELB	DIP	3	69														
JUN 21	10:45	6.0	0.444	WELB	DIP	11	50														
JUL 31	12:22	10.0	0.052	WELB	DIP	1	68														
AUG 30	12:39	10.0	0.031	WELB	DIP	1	73														
SEP 14	07:45	9.0	0.013	WELB	DIP	0	74														
OCT 17	10:06	6.0	0.010	WELB	DIP	1	60														
NOV 15	13:53	5.0	0.038	WELB	DIP	1	57														
DEC 04	13:40	2.5	0.034	WELB	DIP	1	74														

NOTE: SINGLE VERTICAL LOCATED AT WELB (WATER'S EDGE LEFT BANK) FOR 1990

ANDERSON CREEK NEAR NELSON - STATION NO. 08NJ130

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1983	CCCCCCCCCCCC	MANUAL	90	MAY 29	0	JAN 9 *	6.7	MAY 29 *	48.*	0.144	0.144	---
1984	CCCCCCCCCCC	MANUAL	126	JUN 11 *	0	FEB 26	3.8	MAY 30	24.7	0.081	0.11	28.2
1985	CCCCCCCCCCCC	MANUAL	20	MAY 25	0	JUN 5	1.2	MAY 24	13.4	0.039	0.08	34.8
1986	PPPPP-PPPP-P	MANUAL	28	MAY 28	0	MAR 5	---	---	---	---	---	---
1987	-P-P-PPPPP--	MANUAL	5	FEB 17	2	JUL 7	---	---	---	---	---	---
1988	--PP--PP-PPP	MANUAL	7	MAR 9	0	AUG 30	---	---	---	---	---	---
1990	PPPPPPPPPPPP	MANUAL	11	JUN 21	0	SEP 14	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

ARROW CREEK NEAR ERICKSON - STATION NO. 08NH084

LOCATION: LAT 49 09 32 N LONG 116 27 04 W
DRAINAGE AREA: 78.7 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1979	CCCCCCCCCCCC	MANUAL	48	MAY 25	0	JAN 1 *	28.9	MAY 25	240	0.838	0.838	---
1980	CCCCCCCCCCCC	MANUAL	37	APR 28	0	JAN 3	29.4	APR 29	287	0.972	0.90	7.4
1981	CCCCCCCCCCCC	MANUAL	43	MAY 26	0	FEB 4	63.2	MAY 26	772	2.38	1.40	35.3
1982	CCCCCCCCCCCC	MANUAL	92	JUN 14	0	FEB 5	102	JUN 14	898	3.14	1.83	30.5
1983	CCCCCCCCCCCC	MANUAL	51	MAY 27	0	JAN 1	77.1	MAY 29	901 *	2.99	2.07	23.8
1984	CCCCCCCCCCC	MANUAL	127	MAY 30	0	MAR 1	94.8	MAY 30	560	1.69	2.00	20.3
1985	CCCCCCCCCP-	MANUAL	136	MAY 21 *	0	JUN 27	110	MAY 22 *	708	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

BEATTON RIVER NEAR FORT ST. JOHN - STATION NO. 07FC001

LOCATION: LAT 56 16 12 N LONG 120 40 43 W
DRAINAGE AREA: 15 600 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JUN 05	13:14	22.0	75.0	40.0	M	D49	2785	151	22	32	42	54	68	83	95	99	100			17	51	32
JUN 05	13:20	22.0	94.4	56.0	M	D49	3143	158	21	28	38	52	66	76	85	92	96	100		24	48	28
JUN 05	13:24	22.0	76.8	71.0	M	D49	2993	158	22	31	41	52	65	79	90	97	100			21	48	31
JUN 05	13:30	22.0	73.0	80.0	M	D49	2881	154	23	30	41	52	62	78	93	99	100			22	48	30
JUN 05	13:40	22.0	113	96.0	M	D49	2823	159	22	31	42	54	64	83	95	99	100			17	52	31
AUG 03	10:14	10.0	2.65	78.0	L	DH48	69	218														
AUG 03	10:18	10.0	4.08	62.0	L	DH48	63	225														
AUG 03	10:22	10.0	4.08	50.0	L	DH48	64	216														
AUG 03	10:27	10.0	4.01	32.0	L	DH48	65	207														
AUG 03	10:32	10.0	2.94	20.0	L	DH48	65	210														
OCT 11	10:33	0.0	0.527	21.5	L	DH48	5	366														
OCT 11	10:36	0.0	0.766	17.0	L	DH48	7	335														
OCT 11	10:41	0.0	0.717	13.0	L	DH48	5	375														
OCT 11	10:44	0.0	0.684	10.0	L	DH48	5	373														
OCT 11	10:49	0.0	0.329	5.0	L	DH48	6	385														

NOTE: SINGLE VERTICAL IS UNDETERMINED FOR 1990

VERTICAL SYMBOL(S): L - A SEDIMENT MEASUREMENT VERTICAL NOT AT THE REGULAR CROSS SECTION, FROM LEFT BANK
M - A SEDIMENT MEASUREMENT VERTICAL

BEATTON RIVER NEAR FORT ST. JOHN - STATION NO. 07FC001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1988	----P-P-----	MANUAL	798	MAY 24	204	JUL 7	---	---	---	---	---	---
1989	----PP-P----	MANUAL	734	MAY 31	82	AUG 30	---	---	---	---	---	---
1990	-----P-P-P--	MANUAL	3 140	JUN 5 *	5	OCT 11 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

BELLA COOLA RIVER ABOVE BURNT BRIDGE CREEK - STATION NO. 08FB007

LOCATION: LAT 52 25 20 N LONG 126 09 29 W
DRAINAGE AREA: 3 730 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 10	15:09	7.0	5.33	16	M	D49	4	61														
APR 10	15:16	7.0	6.43	24	M	D49	5	64														
APR 10	15:22	7.0	6.45	32	M	D49	6	60														
APR 10	15:28	7.0	5.78	40	M	D49	5	59														
APR 10	15:35	7.0	6.29	51	M	D49	4	57														
JUN 12	12:39	8.5	29.7	18	M	D49	22	42														
JUN 12	12:47	8.5	34.0	26	M	D49	17 F	44														
JUN 12	12:52	8.5	37.7	34	M	D49	17	47														
JUN 12	13:00	8.5	32.8	43.5	M	D49	18	50														
JUN 12	13:07	8.5	36.5	53	M	D49	40	48														
SEP 12	10:08	7.0	19.8	17	M	P61	29	5														
SEP 12	10:16	7.0	23.2	25	M	P61	30	7														
SEP 12	10:24	7.0	23.8	34	M	P61	27	5														
SEP 12	10:32	7.0	22.9	43	M	P61	28	4														
SEP 12	10:41	7.0	22.1	55.5	M	P61	37	12														

NOTE: SINGLE VERTICAL IS UNDETERMINED FOR 1990

CONCENTRATION SYMBOL(S): F - SAMPLE BOTTLE OVER FILLED
VERTICAL SYMBOL(S): M - A SEDIMENT MEASUREMENT VERTICAL

BRITISH COLUMBIA

BELLA COOLA RIVER ABOVE BURNT BRIDGE CREEK - STATION NO. 08FB007

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1988	------PPPP-P	MANUAL	134 OCT 13		4 DEC 7	*	---	---	---	---	---	---
1989	---P-P--P---	MANUAL	195 JUN 13	*	20 APR 20		---	---	---	---	---	---
1990	---P-P--P---	MANUAL	40 JUN 12		4 APR 10		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

BOWSER RIVER AT BERENDON GLACIER - STATION NO. 08DA006

LOCATION: LAT 56 15 20 N LONG 130 03 55 W
DRAINAGE AREA:
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1967	-------PP---	MANUAL	1 780 AUG 26	*	115 AUG 24		---	---	---	---	---	---
1968	-------C----	MANUAL	164 AUG 1		38 AUG 27	*	327 AUG 1	*	3 650	*	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

BULKLEY RIVER AT QUICK - STATION NO. 08EE004

LOCATION: LAT 54 37 05 N LONG 126 53 55 W
DRAINAGE AREA: 7 360 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: MANUAL

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 20	14:03	5.0	27.3	15	M	D49	109	85														
APR 20	14:20	5.0	42.2	30	M	D49	130	83														
APR 20	14:42	5.0	36.0	48.7	M	D49	123	84														
APR 20	14:51	5.0	38.4	60	M	D49	124	82														
APR 20	14:58	5.0	44.5	75	M	D49	105	85														
MAY 25	12:58	8.0	56.3	15	M	D49	38	58														
MAY 25	13:07	8.0	76.9	30	M	D49	50	51														
MAY 25	13:19	8.0	58.5	51	M	D49	39	59														
MAY 25	13:27	8.0	56.9	60	M	D49	47	66														
MAY 25	13:34	8.0	81.0	75	M	D49	42	61														
JUL 03	17:13	12.0	50.4	15	M	D49	28	59														
JUL 03	17:20	12.0	68.2	30	M	D49	33	59														
JUL 03	17:29	12.0	52.8	51.5	M	D49	31	53														
JUL 03	17:35	12.0	52.3	60	M	D49	29	55														
JUL 03	17:44	12.0	75.2	75	M	D49	25	64														
AUG 29	14:16	16.0	17.8	20	M	D49	2	39														
AUG 29	14:30	16.0	23.3	35	M	D49	2	39														
AUG 29	14:38	16.0	16.2	51	M	D49	2	36														
AUG 29	14:45	16.0	20.5	60	M	D49	2	38														
AUG 29	14:54	16.0	23.7	75	M	D49	2	38														

NOTE: SINGLE VERTICAL IS UNDETERMINED FOR 1990

VERTICAL SYMBOL(S): M - A SEDIMENT MEASUREMENT VERTICAL

BULKLEY RIVER AT QUICK - STATION NO. 08EE004

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1988	----PP-PP---	MANUAL	33 MAY 27		2 SEP 1	*	---	---	---	---	---	---
1989	----P-PP-P--	MANUAL	538 MAY 4	*	3 OCT 19		---	---	---	---	---	---
1990	---PP-PP----	MANUAL	132 APR 20		2 AUG 29		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

CARNATION CREEK AT THE MOUTH - STATION NO. 08HB048

LOCATION: LAT 48 54 56 N LONG 124 59 52 W
DRAINAGE AREA: 10.1 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1973	--CCCCCCCCCC		93 DEC 19	0 SEP 12 *	57.8DEC 15	258	---	---	---
1974	CCCCCCCCCCC		76 SEP 15	0 JAN 26	30.1NOV 24	277	0.774	0.774	---
1975	CCCCCCCCCCCC		27 NOV 3	1 JUL 7	32.4NOV 3	282	0.771	0.77	0.2
1976	CCCCCCCCCCCC		17 DEC 7	0 JAN 21	12.6DEC 7	117	0.338	0.62	23.1
1977	CCCCCCCCCCCC		27 FEB 12	0 APR 28	30.5FEB 12	146	0.456	0.58	19.0
1978	CCCCCCCCCCCC		99 NOV 7	0 JAN 13	97.5NOV 7	216	0.637	0.59	14.5
1979	CCCCCCCCCCCC		41 DEC 17	0 JAN 11	47.8DEC 17	198	0.900	0.64	13.5
1980	CCCCCCCCCCCC		38 DEC 26	0 NOV 16	70.9DEC 26	275	0.754	0.66	11.4
1981	CCCCCCCCCCCC		17 FEB 15	0 FEB 7	14.3OCT 31	124	0.343	0.62	11.9
1982	CCCCCCCCCCCC		45 OCT 11	0 JAN 2	52.1JAN 23	250	0.779	0.64	10.6
1983	CCCCCCCCCCCC		49 FEB 11	0 JAN 15	84.7FEB 11	239	0.742	0.65	9.4
1984	CCCCCCCCCCCC		842 JAN 4 *	0 MAY 19	152 JAN 4 *	308 *	0.852	0.67	8.7
1985	CCCCCCCCCCCC		144 OCT 22	0 JAN 16	6.0FEB 11	76.8	0.272	0.63	9.9
1986	P----------		33 JAN 8	1 JAN 3	--- ---	---	---	---	---

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

CHILCOTIN RIVER BELOW PIG CREEK - STATION NO. 08MB005

LOCATION: LAT 51 50 55 N LONG 122 39 12 W
DRAINAGE AREA: 19 300 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 24	12:23	10.0	9.15	47	M	D49	29	112														
APR 24	12:31	10.0	12.1	37	M	D49	32	111														
APR 24	12:36	10.0	14.0	30	M	D49	32	115														
APR 24	12:41	10.0	13.9	24	M	D49	32	117														
APR 24	12:45	10.0	13.5	18	M	D49	29	116														
JUL 20	12:45	13.0	42.1	54	M	P61	102	68														
JUL 20	12:52	13.0	51.8	41	M	P61	117	70														
JUL 20	12:58	13.0	55.0	33	M	P61	114	69														
JUL 20	13:04	13.0	59.6	24.5	M	P61	141	66														
JUL 20	13:10	13.0	53.2	17	M	P61	116	67														

NOTE: SINGLE VERTICAL IS UNDETERMINED FOR 1990

VERTICAL SYMBOL(S): M - A SEDIMENT MEASUREMENT VERTICAL

CHILCOTIN RIVER BELOW BIG CREEK - STATION NO. 08MB005

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1988	-----P-P-P--	MANUAL	67 AUG 3	3 OCT 19 *	--- ---	---	---	---	---
1989	-----PP-----	MANUAL	32 JUN 29	23 JUL 27	--- ---	---	---	---	---
1990	---P--P-----	MANUAL	141 JUL 20 *	29 APR 24	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

CHILKO RIVER AT OUTLET OF CHILKO LAKE - STATION NO. 08MA002

LOCATION: LAT 51 37 31 N LONG 124 08 31 W
DRAINAGE AREA: 2 110 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1982	------P-P---	MANUAL	4 SEP 13		3 JUL 8		---	---	---	---	---	---
1983	---P-PPP----	MANUAL	14 JUL 14	*	1 JUN 16	*	---	---	---	---	---	---
1984	-----PPP-P--	MANUAL	5 JUN 21		1 JUL 17		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

CHILKO RIVER NEAR REDSTONE - STATION NO. 08MA001

LOCATION: LAT 52 04 12 N LONG 123 32 12 W
DRAINAGE AREA: 6 940 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1983	---PPPP-P---	MANUAL	45 MAY 30		7 APR 19	*	---	---	---	---	---	---
1984	----PPP-----	MANUAL	47 JUN 27	*	8 MAY 29		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

CHILLIWACK RIVER AT VEDDER CROSSING - STATION NO. 08MH001

LOCATION: LAT 49 05 50 N LONG 121 57 45 W
DRAINAGE AREA: 1 230 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1965	-----CCCCCCC	MANUAL	260 SEP 15		4 JUL 13		1 100 SEP 15		25 500	---	---	---
1966	CCCCCCCCCCCC	MANUAL	100 NOV 25		1 JUN 29		2 690 DEC 16		51 800	142	142	---
1967	CCCCCCCCCCCC	MANUAL	157 OCT 31		2 MAR 31		4 610 OCT 31		133 000	364	253	43.9
1968	CCCCCCCCCCCC	MANUAL	856 SEP 17		3 APR 18		5 420 JUN 2		100 000	273	260	54.9
1969	CCCCCCCCCCCC	MANUAL	104 APR 1		2 AUG 5		2 130 MAY 24		63 200	173	238	21.2
1970	CCCCCCCCCCCC	MANUAL	92 JUN 4		0 OCT 13	*	1 690 JUN 4		28 700	92.8	209	23.3
1971	CCCCCCCCCCCC	MANUAL	231 JAN 31		0 JAN 4		7 130 JAN 31		80 300	244	215	18.7
1972	CCCCCCCCCCCC	MANUAL	322 MAY 30		1 JAN 1		9 440 MAY 30		136 000	371	237	17.1
1973	CCCCCCCCCCCC	MANUAL	197 MAY 24		1 JAN 1		2 380 MAY 24		44 000	121	223	17.1
1974	CCCCCCCCCCCC	MANUAL	330 JUN 15		1 APR 10		10 200 JUN 15		150 000	410	244	16.2
1975	CCCCCCCCCCCC	MANUAL	4 000 DEC 3	*	2 APR 7		183 000 DEC 3	*	535 000	* 1 470	366	34.8
1976	PPP----------	MANUAL	10 JAN 28		7 FEB 11		---		---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

CLEARWATER RIVER NEAR CLEARWATER STATION - STATION NO. 08LA001

LOCATION: LAT 51 39 20 N LONG 120 03 55 W
DRAINAGE AREA: 10 200 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MAY-AUG MEAN LOAD (TONNES)	SUMMARY : MAY-AUG HISTORICAL MEAN LOAD (TONNES)	SUMMARY : MAY-AUG STANDARD ERROR OF MEAN %
1972	----CCCC----	MANUAL	97 JUN 12 *	1 MAY 1 *	12 200 JUN 12 *	226 000 *	1 840	1 840	---

MANUAL - MANUAL SAMPLING
C - COMPLETE MONTH * - EXTREME FOR PERIOD OF RECORD

COLUMBIA RIVER ABOVE STEAMBOAT RAPIDS - STATION NO. 08ND011

LOCATION: LAT 51 02 31 N LONG 118 12 47 W
DRAINAGE AREA: 26 400 km²
TYPE OF FLOW: REGULATED SINCE 1973
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1967	---CCCCCCCCC	MANUAL	450 JUN 3	6 DEC 15	134 000 JUN 3	3 140 000	---	---	---
1968	CCCCCCCCCCCC	MANUAL	1 300 JUN 3 *	8 JAN 1	358 000 JUN 27	6 360 000 *	17 400	17 400	---
1969	---PCCCCCCC	MANUAL	756 MAY 26	7 DEC 12	168 000 MAY 26	3 420 000	---	---	---
1970	---CCCCCCCC	MANUAL	750 JUN 4	6 APR 21	165 000 JUN 4	2 950 000	---	---	---
1971	---CCCCCCCC	MANUAL	389 JUN 3	1 DEC 14 *	93 400 JUN 3	2 970 000	---	---	---
1972	CCCCCCCCCCC	MANUAL	1 040 JUN 12	2 JAN 10	455 000 JUN 12 *	5 720 000	15 600	16 500	5.3
1973	--CCCCCCCCC	MANUAL	947 JUN 24	3 DEC 26	128 000 JUN 23	1 080 000	---	---	---
1974	CCCCCCCCCCC	MANUAL	1 050 JUN 17	6 JAN 1	105 000 JUN 17	1 020 000	2 790	11 900	38.5
1975	CCCCCCCCCCC	MANUAL	275 JUL 28	4 SEP 20	18 100 JUL 6	1 010 000	2 760	9 650	41.3
1976	CCCCCCCCCCC	MANUAL	947 MAY 11	2 MAR 15	155 000 JUL 16	2 570 000	7 030	9 120	34.3

MANUAL - MANUAL SAMPLING
C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

COLUMBIA RIVER AT BIRCHBANK - STATION NO. 08NE049

LOCATION: LAT 49 10 40 N LONG 117 42 59 W
DRAINAGE AREA: 88 100 km²
TYPE OF FLOW: REGULATED SINCE 1931
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1965	------PCCCCC	MANUAL	60 SEP 3	5 NOV 21	24 000 JUL 10	646 000	---	---	---
1966	CCCCCCCCCCC	MANUAL	75 JAN 8	2 JUL 28	14 300 JUN 9	850 000	2 330	2 330	---
1967	CCCCCCCCCCC	MANUAL	28 JUN 9	1 NOV 24	22 100 JUN 22	1 130 000 *	3 090	2 710	14.0
1968	CCCCCCCCCCC	MANUAL	109 JUN 3 *	3 FEB 21	52 600 JUN 3 *	990 000	2 700	2 710	8.1
1969	CCCCCCCCCCC	MANUAL	43 JUN 24	2 SEP 5	22 200 JUN 24	626 000	1 720	2 460	11.9
1970	CCCCCCCCCCC	MANUAL	19 MAY 5	1 NOV 8	4 410 JUN 8	278 000	763	2 120	19.2
1971	CCCCCCCCCCC	MANUAL	35 MAY 13	1 JUL 24	13 500 MAY 13	446 000	1 220	1 970	18.5
1972	CCCCCCCCCCC	MANUAL	41 MAY 31	1 JUL 29	20 800 MAY 31	510 000	1 390	1 890	16.9
1973	CCCCCCCCCCC	MANUAL	16 JUN 6	1 JAN 8	2 970 JUN 26	278 000	762	1 750	17.8
1974	CCCCCCCCCCC	MANUAL	51 JUN 17	1 AUG 14	15 700 JUN 17	428 000	1 170	1 680	16.7
1975	CCCCCCCCCCC	MANUAL	23 MAY 15	2 FEB 25 *	3 440 JUL 31	253 000	694	1 580	17.0
1976	CCCCCCCCCCC	MANUAL	20 MAY 11	0 DEC 21 *	5 630 MAY 11	355 000	971	1 530	16.4
1977	CCCCCCCCCCC	MANUAL	21 MAY 24	0 JAN 11	5 100 MAY 24	209 000	620	1 450	16.6
1978	CCCCCCCCCCC	MANUAL	16 JUN 6	0 OCT 8	3 220 SEP 5	371 000	1 030	1 420	15.8
1979	CCCCCCCCCCC	MANUAL	32 MAY 5	0 JAN 23	5 890 MAY 5	344 000	988	1 390	15.1
1980	CCCCCCCCCCC	MANUAL	63 MAY 6	0 JAN 11	11 800 APR 29	438 000	1 270	1 380	14.1
1981	CCCCCCCCCCC	MANUAL	33 MAY 26	1 AUG 6	8 610 MAY 26	358 000	980	1 360	13.6
1982	FPP---------	MANUAL	7 FEB 7	3 JAN 3	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING
C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

COLUMBIA RIVER AT DONALD - STATION NO. 08NB005

LOCATION: LAT 51 29 00 N LONG 117 10 45 W
DRAINAGE AREA: 9 710 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1982	-------PP---	MANUAL	58 AUG 11	36 SEP 23 *	--- ---	---	---	---	---
1983	----PP---P--	MANUAL	239 MAY 27 *	9 OCT 6 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

COLUMBIA RIVER AT NICHOLSON - STATION NO. 08NA002

LOCATION: LAT 51 14 38 N LONG 116 54 42 W
DRAINAGE AREA: 6 660 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1982	-----P--P---	MANUAL	56 SEP 8	38 JUN 3	--- ---	---	---	---	---
1983	----PP---P--	MANUAL	88 MAY 25 *	6 OCT 7 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

COQUITLAM RIVER AT PORT COQUITLAM - STATION NO. 08MH002

LOCATION: LAT 49 15 56 N LONG 122 46 51 W
DRAINAGE AREA: 237 km²
TYPE OF FLOW: REGULATED SINCE 1902
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 15	11:41	7.0	0.559	4.1	L	DH48	15	30														
JAN 15	11:43	7.0	0.745	7.7	L	DH48	12	26														
JAN 15	11:46	7.0	0.655	10.3	L	DH48	8	25														
JAN 15	11:48	7.0	0.726	12.6	L	DH48	8	14														
JAN 15	11:51	7.0	0.777	15.7	L	DH48	9	28														
FEB 20	16:33	4.0	0.522	4.1	L	DH48	335	65														
FEB 20	16:36	4.0	0.609	8.0	L	DH48	340	69														
FEB 20	16:39	4.0	0.614	10.8	L	DH48	351	75														
FEB 20	16:42	4.0	0.612	13.1	L	DH48	355	81														
FEB 20	16:44	4.0	0.658	15.8	L	DH48	349	90														
APR 23	12:58	5.0	9.87	51.0	M	DH59	278	35														
APR 23	13:04	5.0	13.4	48.5	M	DH59	431	34														
MAY 15	12:38	9.5	0.462	4.4	L	DH48	4	26														
MAY 15	12:42	9.5	0.488	7.1	L	DH48	3	17														
MAY 15	12:45	9.5	0.619	9.5	L	DH48	1	26														
MAY 15	12:47	9.5	0.705	12.7	L	DH48	2	27														
MAY 15	12:51	9.5	0.633	15.7	L	DH48	2	30														
MAY 15	14:17	9.5	2.99	8.5	K	DH59	6															
MAY 15	14:23	9.5	2.99	6.0	K	DH59	4															
JUN 21	13:55	18.0	1.48	11.8	K	DH48	3	45														
JUL 27	13:54	18.0	0.571V	11.4	K	DH48	2	64														
SEP 13	11:17	15.0	0.082	5.1	L	DH48	4	62														
SEP 13	11:21	15.0	0.092	7.9	L	DH48	8	61														
SEP 13	11:23	15.0	0.093	10.3	L	DH48	6	59														
SEP 13	11:26	15.0	0.092	12.8	L	DH48	5	62														
SEP 13	11:30	15.0	0.102	15.1	L	DH48	4	54														
OCT 24	11:26	10.0	0.299	4.0	L	DH48	4	31														
OCT 24	11:30	10.0	0.413	7.2	L	DH48	4	29														
OCT 24	11:32	10.0	0.383	9.9	L	DH48	6	32														
OCT 24	11:35	10.0	0.386	12.7	L	DH48	2	28														
OCT 24	11:38	10.0	0.408	15.8	L	DH48	3	36														
NOV 20	11:05	4.0	0.649	2.6	L	DH48	18	23														
NOV 20	11:08	4.0	0.803	7.0	L	DH48	13	22														
NOV 20	11:10	4.0	0.826	10.0	L	DH48	12	24														
NOV 20	11:13	4.0	0.778	12.4	L	DH48	11	18														
NOV 20	11:15	4.0	0.917	15.3	L	DH48	9	28														

NOTE: SINGLE VERTICAL IS UNDETERMINED FOR 1990

DISCHARGE SYMBOL(S): V - DAILY MEAN; MANUAL GAUGE
VERTICAL SYMBOL(S): K - NOT AT REGULAR SINGLE SAMPLING VERTICAL, FROM LEFT BANK
L - A SEDIMENT MEASUREMENT VERTICAL NOT AT THE REGULAR CROSS SECTION, FROM LEFT BANK
M - A SEDIMENT MEASUREMENT VERTICAL

COQUITLAM RIVER AT PORT COQUITLAM - STATION NO. 08MH002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1988	-------P---P	MANUAL	7 DEC 7	3 AUG 5	--- ---	---	---	---	---
1989	P--PPP-P-PPP	MANUAL	248 JAN 16	4 OCT 6	--- ---	---	---	---	---
1990	PP-PPPP-PPP-	MANUAL	431 APR 23 *	1 MAY 15 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

DICKEBUSCH CREEK NEAR THE MOUTH - STATION NO. 07FB004

LOCATION: LAT 55 32 07 N LONG 121 35 40 W
DRAINAGE AREA: 85.5 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MAY-OCT MEAN LOAD (TONNES)	SUMMARY : MAY-OCT HISTORICAL MEAN LOAD (TONNES)	SUMMARY : MAY-OCT STANDARD ERROR OF MEAN %
1979	------PPP---	MANUAL	21 JUL 23	2 SEP 26	--- ---	---	---	---	---
1980	----P--PPP--	MANUAL	43 AUG 29	3 OCT 28	--- ---	---	---	---	---
1981	----PCCCCC--	MANUAL	339 MAY 31	1 AUG 24 *	244 JUN 1	1 170	---	---	---
1982	----CCCCCC--	MANUAL	15 400 JUL 15 *	1 OCT 31	21 400 JUL 15 *	37 500 *	204	204	---
1983	---PCCCCCC--	MANUAL	2 570 JUL 14	1 OCT 6	4 420 JUL 14	12 400	65.6	135	51.3

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

DUCK CREEK NEAR WYNNDEL - STATION NO. 08NH016

LOCATION: LAT 49 12 10 N LONG 116 31 56 W
DRAINAGE AREA: 57 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1979	---CCCCCCCCC	MANUAL	18 MAY 26	0 OCT 8 *	4.3MAY 26	75.8	---	---	---
1980	CCCCCCCCCCCC	MANUAL	164 APR 29	0 AUG 8	84.0APR 29	473	1.35	1.35	---
1981	CCCCCCCCCCCC	MANUAL	233 MAY 25 *	0 APR 5	117 MAY 25 *	614 *	1.73	1.54	12.2
1982	CCCCCCCCCCCC	MANUAL	63 MAY 25	0 FEB 28	27.8JUN 15	386	1.20	1.43	11.1
1983	CCCCCCCCCCCC	MANUAL	126 MAY 28	0 JAN 1	60.8MAY 28	614	1.70	1.49	8.8
1984	CCCCCCCCCCC	MANUAL	99 JUN 15	1 FEB 1	35.0JUN 15	344	0.939	1.38	10.9
1985	CCCCCCCCCCCC	MANUAL	58 MAY 23	1 AUG 7	19.1MAY 23	180	0.492	1.23	15.6

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH * - EXTREME FOR PERIOD OF RECORD

ELAHO RIVER NEAR THE MOUTH - STATION NO. 08GA071

LOCATION: LAT 50 07 10 N LONG 123 26 10 W
DRAINAGE AREA: 1 250 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1984	---PPP--PP--	MANUAL	335 JUN 28 *	1 APR 5 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

ELK RIVER AT FERNIE - STATION NO. 08NK002

LOCATION: LAT 49 30 36 N LONG 115 04 17 W
DRAINAGE AREA: 3 110 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1970	CCCCCCCCCCCC	MANUAL	389 MAY 27	1 JUL 27	7 230 MAY 27	72 600	199	199	---
1971	CCCCCCCCCCCC	MANUAL	834 MAY 28	3 SEP 23	25 700 MAY 28	288 000	788	493	59.7
1972	CCCCCCCCCCCC	MANUAL	1 520 MAY 31	0 AUG 19 *	55 800 MAY 31	540 000	1 480	824	45.1
1973	CCCCCCCCCCCC	MANUAL	458 JUN 9	1 SEP 14	10 500 JUN 9	84 800	232	676	44.6
1974	CCCCCCCCCCCC	MANUAL	1 750 JUN 17 *	0 OCT 19	90 000 JUN 18 *	954 000 *	2 630	1 070	42.7
1975	CCCCCCCCCCCC	MANUAL	527 JUN 6	0 OCT 24	13 500 JUN 6	193 000	532	977	39.1
1976	CCCCCCCCCCCC	MANUAL	427 MAY 11	2 JAN 6	11 300 MAY 11	145 000	396	894	37.3
1977	CCCCCCCCCCCC	MANUAL	374 JUN 9	2 NOV 5	3 910 JUN 9	31 300	85.7	793	38.6

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH * - EXTREME FOR PERIOD OF RECORD

ELK RIVER NEAR NATAL - STATION NO. 08NK016

LOCATION: LAT 49 51 58 N LONG 114 52 06 W
DRAINAGE AREA: 1 870 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1970	CCCCCCCCCCCC	MANUAL	215 MAY 26	1 FEB 26	1 770 JUN 5	27 600	75.7	75.7	---
1971	CCCCCCCCCCCC	MANUAL	279 MAY 11	1 SEP 4	2 650 JUN 8	65 400	179	127	40.6
1972	CCCCCCCCCCCC	MANUAL	850 JUN 19	0 NOV 4 *	10 100 JUN 19	177 000	496	250	50.5
1973	CCCCCCCCCCCC	MANUAL	196 MAY 17	1 APR 19	1 300 MAY 18	29 000	79.4	208	47.7
1974	CCCCCCCCCCCC	MANUAL	1 870 JUN 21 *	0 OCT 15	44 900 JUN 21 *	331 000 *	916	349	46.1
1975	CCCCCCCCCCCC	MANUAL	195 JUN 3	0 NOV 11	1 890 JUN 3	41 900	115	310	44.2
1976	CCCCCCCCCCCC	MANUAL	100 MAY 10	1 SEP 21	975 MAY 11	23 300	63.8	275	44.1
1977	CCCCCCCCCCCC	MANUAL	70 MAY 11	1 APR 21	361 JUN 8	8 140	22.3	243	45.0

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH * - EXTREME FOR PERIOD OF RECORD

ENGLISHMAN RIVER NEAR PARKSVILLE - STATION NO. 08HB002

LOCATION: LAT 49 19 00 N LONG 124 16 58 W
DRAINAGE AREA: 324 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	PERCENT SILT	PERCENT CLAY
JAN 10	15:10	4.5	26.8	22.0		DH48	4	36														
MAR 01	14:50	5.0	8.22	22.0		DH48	12	55														
APR 11	09:40	9.0	10.2	22.0		DH48	2	48														
JUN 12	12:55	14.0	9.78	22.0		DH48	2	50														
AUG 02	09:20	21.0	0.538	22.0		DIP	2	93														
NOV 23	15:00E	9.0	32.5	7.5	Z	D49	1021	55	05	08	18	28	43	60	83	97	100			40	52	8
NOV 23	15:04E	9.0	105	13.0	Z	D49	998	54	04	09	18	29	44	63	85	98	100			37	54	9
NOV 23	15:08E	9.0	111	21.5	Z	D49	1314	48	06	09	16	27	38	57	81	95	100			43	48	9
NOV 23	15:12E	9.0	55.1	27.0	Z	D49	1292		06	11	17	27	39	55	73	86	96	100		45	44	11
NOV 23	15:16E	9.0	42.8	32.0	Z	D49	1032	54	07	13	21	33	48	63	76	88	95	100		37	50	13

NOTE: SINGLE VERTICAL IS UNDETERMINED FOR 1990

TIME SYMBOL: E - ESTIMATED
VERTICAL SYMBOL(S): Z - A SEDIMENT MEASUREMENT NOT AT THE REGULAR MEASUREMENT CROSS-SECTION

BRITISH COLUMBIA

ENGLISHMAN RIVER NEAR PARKSVILLE - STATION NO. 08HB002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1988	-----P--P-P-	MANUAL	3 JUN 20		0 SEP 16	*	---	---	---	---	---	---
1989	P-P-P-P--P-P	MANUAL	9 DEC 6		1 JAN 24		---	---	---	---	---	---
1990	P-PP-P-P--P-	MANUAL	1 310 NOV 23	*	2 APR 11		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

FELL CREEK NEAR NELSON - STATION NO. 08NJ129

LOCATION: LAT 49 30 12 N LONG 117 15 37 W
DRAINAGE AREA: 4.4 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: MANUAL

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1983	PPPPPCPPPPPP	MANUAL	190 MAY 29		0 JAN 30	*	8.4	MAY 29 *	46.*	---	---	---
1984	PPPPPPPPPPPP	MANUAL	311 JUN 17	*	0 JAN 8		---	---	---	---	---	---
1985	PPPPPPPPPPPP	MANUAL	188 MAY 25		0 JAN 27		---	---	---	---	---	---
1986	PPP---------	MANUAL	11 JAN 12		1 JAN 5		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

FIVE MILE CREEK ABOVE CITY INTAKE - STATION NO. 08NJ168

SUSPENDED SEDIMENT FOR 1990

LOCATION: LAT. 49 31 08 N LONG 117 12 44 W
DRAINAGE AREA: 47.5 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 125 TONNES FOR THE PERIOD JAN 01 TO DEC 31

	JAN			FEB			MAR			
DAY	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	0.32	2	0.056*	0.24	2	0.042*	0.13B	1	0.011	1
2	0.30	2	0.053*	0.24	2 S	0.042*	0.13B	1	0.012	2
3	0.29	2	0.051*	0.24	2	0.042*	0.14B	1	0.012	3
4	0.30	2 S	0.052*	0.23	2	0.041*	0.14B	1	0.012	4
5	0.29	2	0.051*	0.23	2 S	0.041*	0.14B	1 S	0.013	5
6	0.29	2	0.051*	0.22	2	0.040*	0.15B	1	0.013	6
7	0.30	2	0.053*	0.21	2	0.039*	0.15B	2 S	0.026	7
8	0.30	2	0.052*	0.21B	2	0.038*	0.15B	2	0.027	8
9	0.30	2	0.052*	0.20B	3	0.054*	0.15B	2	0.027	9
10	0.31	2	0.055*	0.20B	3	0.052*	0.15B	2 S	0.027	10
11	0.36	2	0.062*	0.20B	3	0.052*	0.15B	3	0.040	11
12	0.29	2	0.051*	0.21B	3	0.054*	0.14B	3 S	0.037	12
13	0.28	2	0.049*	0.21	3	0.056*	0.14B	3	0.037	13
14	0.29	2	0.050*	0.21	3 S	0.057*	0.14B	2	0.024	14
15	0.28	2	0.049*	0.21B	3	0.054*	0.14B	2 S	0.024	15
16	0.27	2	0.048*	0.19B	3	0.049*	0.14B	2	0.025	16
17	0.26	2	0.045*	0.18B	2	0.032*	0.15B	3	0.039	17
18	0.26B	2 S	0.045*	0.19B	2	0.033*	0.17B	3 S	0.045	18
19	0.26B	2	0.046*	0.19B	2 S	0.034*	0.20	4 S	0.070	19
20	0.26B	2	0.046*	0.17B	2	0.031*	0.23	5	0.103	20
21	0.27B	2	0.047*	0.16B	2	0.029*	0.23	3 S	0.061	21
22	0.26B	2	0.046*	0.17B	1	0.015*	0.22	3	0.057	22
23	0.26B	2	0.046*	0.17B	1	0.015*	0.21	2	0.036	23
24	0.26	2	0.046*	0.17B	1	0.015*	0.21B	1 S	0.018	24
25	0.26	2	0.046*	0.16B	1	0.014*	0.20	1	0.018	25
26	0.26	2 S	0.045*	0.15B	1	0.013*	0.20	2	0.035	26
27	0.25	2	0.044*	0.14B	1	0.012*	0.20	2	0.036	27
28	0.25	2	0.044*	0.13B	1 S	0.012*	0.21	2 S	0.038	28
29	0.25	2	0.044*				0.22	2	0.039	29
30	0.24	2	0.043*				0.23	2	0.041	30
31	0.24	2	0.042*				0.29	2 S	0.051	31
TOTAL	8.75		2	5.551		1	5.575		1	

	APR			MAY			JUN			
DAY	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	0.39	3	0.101*	1.45	1 S	0.125*	7.50	5 S	3.24	1
2	0.54	4 S	0.189*	1.46	1 S	0.126*	5.84	1 S	0.505	2
3	0.62	3	0.161*	1.56	1 S	0.135*	5.84	3 S	1.51	3
4	0.60	2	0.105*	2.03	1 S	0.175*	6.52	3 S	1.69	4
5	0.62	2 S	0.109*	3.48	3 S	0.902*	5.11	3 S	1.32	5
6	0.66	2	0.114*	4.95	3 S	1.28 *	4.74	2 S	0.819	6
7	0.74	2 S	0.129*	3.78	2 S	0.653*	6.25	5 S	2.70	7
8	0.86	2 S	0.150*	3.07	2 S	0.530*	5.19	4 S	1.79	8
9	0.85	2	0.148*	2.61	2 S	0.451*	5.23	3 S	1.36	9
10	0.82	1 S	0.071*	2.43	2 S	0.420*	11.1	14 S	13.4	10
11	0.80	1	0.070*	2.57	2 S	0.444*	8.60	4 S	2.97	11
12	0.83	1	0.072*	2.92	2 S	0.505*	6.13	2 S	1.06	12
13	0.83	1	0.072*	2.89	1 S	0.250*	5.11	2 S	0.883	13
14	0.87	2	0.151*	2.65	1 S	0.229*	4.76	1 S	0.411	14
15	0.95	2	0.165*	2.50	1 S	0.216*	4.89	1	0.422	15
16	1.09	2 S	0.188*	2.36	1 S	0.204*	5.70	1 S	0.492	16
17	1.22	1	0.105*	2.43	1 S	0.210*	6.03	1	0.521	17
18	1.36	2	0.235*	2.42	1	0.209*	6.25	2 S	1.08	18
19	1.62	3 S	0.420*	2.43	1 S	0.210*	6.46	3 S	1.67	19
20	2.01	2	0.347*	2.49	2 S	0.430*	7.06	2 S	1.22	20
21	2.44	2 S	0.422*	2.51	2 S	0.434*	7.03	3 S	1.82	21
22	3.03	2	0.524*	2.83	2 S	0.489*	7.59	4	2.62	22
23	3.21	2 S	0.832*	4.11	3 S	1.07 *	8.05	4 S	2.78	23
24	2.96	2	0.511*	4.85	4 S	1.68 *	8.30	2 S	1.43	24
25	2.47	1 S	0.213*	5.23	5 S	2.26 *	7.62	1 S	0.658	25
26	2.09	1	0.181*	4.71	3 S	1.22 *	6.62	1 S	0.572	26
27	1.90	1	0.164*	4.56	3	1.18 *	5.59	1 S	0.483	27
28	1.73	1	0.149*	6.15	8 S	4.25 *	5.29	1 S	0.457	28
29	1.59	1	0.137*	8.84	18 S	13.7 *	5.00	1 S	0.432	29
30	1.49	1 S	0.129*	10.4	4 S	3.59 *	5.64	2	0.975	30
31				8.53	4	2.95 *				31
TOTAL	41.265		6	115.2		41	191.04		51	

B - ICE CONDITIONS S - SAMPLE(S) COLLECTED THIS DAY

BRITISH COLUMBIA

FIVE MILE CREEK ABOVE CITY INTAKE - STATION NO. 08NJ168

SUSPENDED SEDIMENT FOR 1990

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	4.50	2	0.778*	0.65	3	0.169*	0.47	3 S	0.123	1
2	4.23	2 S	0.731*	0.60	3	0.158*	0.37	3	0.098	2
3	3.80	2	0.657*	0.57	2	0.098*	0.34	3 S	0.089	3
4	3.19	1 S	0.276*	0.53	2	0.092*	0.32	3	0.084	4
5	3.19	2 S	0.551*	0.49	1	0.043*	0.29	3	0.078	5
6	3.70	3	0.959*	0.47	1	0.041*	0.27	3	0.072	6
7	2.88	2 S	0.498*	0.43	1	0.038*	0.26	3	0.070	7
8	2.54	2	0.439*	0.42	1	0.037*	0.25	3	0.066	8
9	2.47	2	0.427*	0.39	1	0.034*	0.23	3	0.062	9
10	2.38	1	0.206*	0.41	2	0.072*	0.23	3	0.060	10
11	2.23	1	0.193*	0.40	2 S	0.070*	0.22	3	0.059	11
12	2.11	1 S	0.182*	0.36	2	0.063*	0.22	3	0.057	12
13	1.96	1 S	0.169*	0.34	2 S	0.060*	0.21	3 S	0.054	13
14	1.64	1	0.142*	0.32	2	0.057*	0.20	2	0.035	14
15	1.48	1	0.128*	0.32	2	0.055*	0.18	2	0.033	15
16	1.36	1	0.118*	0.31	2	0.054*	0.23	2	0.040	16
17	1.23	1 S	0.106*	0.29	2	0.052*	0.24	2	0.042	17
18	1.13	1 S	0.098*	0.30	2	0.052*	0.21	2	0.036	18
19	1.06	1 S	0.092*	0.29	2	0.051*	0.19	2 S	0.034	19
20	0.98	1	0.085*	0.30	2	0.053*	0.18	2	0.031	20
21	0.92	2 S	0.159*	0.34	2	0.059*	0.18	2 S	0.031	21
22	0.91	2	0.159*	0.38	3	0.100*	0.16	2	0.029	22
23	0.89	2	0.154*	0.57	6	0.298*	0.15	2	0.027	23
24	0.81	1	0.071*	0.35	3	0.092*	0.15	2 S	0.027	24
25	1.10	2	0.190*	0.48	4	0.168*	0.15	2	0.026	25
26	1.24	1 S	0.107*	0.46	3	0.121*	0.15	2	0.026	26
27	1.20	3 S	0.311*	0.35	2	0.061*	0.14	2	0.025	27
28	0.91	2	0.159*	0.32	2	0.056*	0.13	1	0.012	28
29	0.81	3	0.210*	0.31	1	0.027*	0.13	1 S	0.012	29
30	0.73	4 S	0.255*	0.54	5	0.236*	0.13	1	0.011	30
31	0.71	3	0.186*	0.53	4	0.185*				31
TOTAL	58.338		9 *	12.97		3 *	6.724		1	

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	0.14	1	0.012*	0.29	1	0.025*	0.73	2 S	0.126	1
2	0.15	1	0.014*	0.21	1	0.019*	0.68	2	0.119	2
3	0.19	1	0.017*	0.24	1 S	0.021*	0.65	2	0.114	3
4	0.45	4	0.157*	0.24	1	0.021*	0.64	2	0.111	4
5	0.45	5	0.194*	0.22	1	0.019*	0.61	2	0.107	5
6	0.25	3	0.065*	0.22	1	0.019*	0.58	2	0.102	6
7	0.21	3	0.055*	0.25	1	0.022*	0.56	2	0.098	7
8	0.20	2	0.035*	0.21	1	0.019*	0.55	2 S	0.096	8
9	0.21	2	0.037*	0.53	7	0.322*	0.54	2	0.094	9
10	0.24	1	0.021*	2.01	12 S	2.08 *	0.52	2	0.090	10
11	0.20	2 S	0.036*	1.38	8	0.954*	0.50	2	0.087	11
12	0.20	2	0.036*	1.01	4	0.349*	0.48	2	0.084	12
13	0.20	1	0.018*	1.23	6 S	0.638*	0.49	2	0.086	13
14	0.19	1	0.017*	1.09	4	0.377*	0.47	2	0.082	14
15	0.20	1	0.017*	0.85	1 S	0.074*	0.46	2 S	0.079	15
16	0.19	1	0.017*	0.76	1	0.066*	0.44	2	0.077	16
17	0.18	2	0.032*	0.71	1	0.062*	0.43	2	0.075	17
18	0.20	1 S	0.018*	0.62	1	0.054*	0.42	2	0.073	18
19	0.19	1	0.017*	0.62	1	0.054*	0.40	2	0.070	19
20	0.18	1	0.016*	0.57	1	0.050*	0.40B	2	0.069	20
21	0.19	1	0.017*	0.54	1	0.047*	0.39B	1	0.034	21
22	0.18	1	0.016*	0.55	1	0.048*	0.37B	1	0.032	22
23	0.18	1	0.016*	0.72	2	0.126*	0.35B	1	0.030	23
24	0.18	1	0.016*	1.29	5	0.557*	0.32B	1 S	0.028	24
25	0.23	1	0.020*	1.59	3	0.412*	0.31B	1	0.027	25
26	0.34	2	0.059*	1.03	1	0.089*	0.31B	0	0	26
27	0.25	1 S	0.022*	0.94	1	0.082*	0.30B	0	0	27
28	0.30	2	0.052*	0.85	2	0.148*	0.29B	0	0	28
29	0.28	1	0.025*	0.83	1	0.072*	0.27B	0	0	29
30	0.34	2	0.060*	0.75	2	0.130*	0.25B	0	0	30
31	0.35	1	0.031*				0.24B	0	0	31
TOTAL	7.359		1 *	22.464		7 *	14.058		2	

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

FIVE MILE CREEK ABOVE CITY INTAKE - STATION NO. 08NJ168

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)		DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002 .004 .008 .016 .031 .062 .125 .250 .500 1.00 2.00	PERCENT SAND SILT CLAY
JAN 04	16:40	1.0	0.299	WELB		DIP	2		31		
JAN 18	15:05	1.0	0.262W	WELB		DIP	2		46		
JAN 26	11:04	1.0	0.265	WELB		DIP	2		46		
FEB 02	12:26	1.0	0.242	WELB		DIP	2		52		
FEB 05	15:34	1.0	0.240	WELB		DIP	2				
FEB 14	07:20	1.0	0.210	WELB		DIP	3		48		
FEB 19	10:45	1.0	0.194W	WELB		DIP	2				
FEB 28	17:43	1.0	0.135W	WELB		DIP	1				
MAR 05	10:48	1.1	0.149W	WELB		DIP	1		48		
MAR 07	18:00	1.1	0.150W	WELB		DIP	2				
MAR 10	17:45	1.1	0.157W	WELB		DIP	1				
MAR 12	10:29	1.8	0.144W	WELB		DIP	3		51		
MAR 12	15:39	1.1	0.144W	WELB		DIP	3		51		
MAR 15	17:48	1.5	0.141W	WELB		DIP	3				
MAR 18	10:28	2.0	0.175W	WELB		DIP	3				
MAR 19	11:14	1.9	0.206	WELB		DIP	4				
MAR 21	17:30	2.0	0.234	WELB		DIP	3				
MAR 24	17:46	0.9	0.207	WELB		DIP	1				
MAR 28	10:13	2.0	0.221	WELB		DIP	2		54		
MAR 31	18:17	2.1	0.317	WELB		DIP	2				
APR 02	11:41	2.0	0.524	WELB		DIP	3		44		
APR 05	18:11	2.0	0.631	WELB		DIP	4				
APR 07	18:14	2.1	0.777	WELB		DIP	1				
APR 08	18:22	2.0	0.866	WELB		DIP	2				
APR 10	17:56	2.1	0.821	WELB		DIP	1				
APR 16	15:27	2.9	1.10	WELB		DIP	1		36		
APR 19	13:10	2.9	1.52	WELB		DIP	1				
APR 19	14:30	1.5	0.263	6.7	Z	DH48	2		46		
APR 19	14:39	1.5	0.362	6.1	Z	DH48	2		45		
APR 19	14:50	1.5	0.267	4.6	Z	DH48	6		47		
APR 19	15:03	1.5	0.301	4.3	Z	DH48	1		50		
APR 19	15:13	1.5	0.330	3.6	Z	DH48	2		47		
APR 19	15:16	1.5	1.52	WELB		DIP	3		54		
APR 21	18:21	3.1	2.65	WELB		DIP	2				
APR 23	11:26	3.2	3.04	WELB		DIP	2				
APR 25	18:15	3.2	2.34	WELB		DIP	1				
APR 30	14:54	3.8	1.48	WELB		DIP	1				
MAY 01	18:16	3.9	1.45	WELB		DIP	1				
MAY 02	19:08	3.9	1.49	WELB		DIP	1				
MAY 03	18:01	3.9	1.63	WELB		DIP	0				
MAY 04	19:44	4.0	4.54	WELB		DIP	1				
MAY 05	18:03	3.9	4.33	WELB		DIP	3		33		
MAY 06	19:13	3.8	4.59	WELB		DIP	1				
MAY 07	12:14	3.7	3.74	WELB		DIP	2				
MAY 08	17:53	3.8	2.91	WELB		DIP	2				
MAY 09	18:04	4.0	2.56	WELB		DIP	2				
MAY 10	19:15	3.9	2.43	WELB		DIP	2				
MAY 11	17:26	3.9	2.74	WELB		DIP	2				
MAY 12	18:05	3.9	3.09	WELB		DIP	2				
MAY 13	19:40	3.9	2.96	WELB		DIP	1				
MAY 14	11:21	3.8	2.61	WELB		DIP	1				
MAY 15	19:43	3.9	2.53	WELB		DIP	1		12		
MAY 16	18:05	4.0	2.36	WELB		DIP	1				
MAY 17	18:06	3.9	2.62	WELB		DIP	2				
MAY 19	18:24	3.9	2.49	WELB		DIP	1				
MAY 20	19:44	3.9	2.69	WELB		DIP	4				
MAY 21	11:57	3.9	2.42	WELB		DIP	1				
MAY 22	07:51	3.8	2.40	WELB		DIP	1				
MAY 23	14:00	2.6	0.561	15.1	M	D49	2		32		
MAY 23	14:12	2.6	0.819	13.9	M	D49	1		14		
MAY 23	14:20	2.6	0.877	13.0	M	D49	1		12		
MAY 23	14:27	2.6	0.680	12.1	M	D49	2		38		
MAY 23	14:36	2.6	0.728	10.9	M	D49	1		34		
MAY 23	14:45	2.6	3.67	WELB		DIP	3		35		
MAY 23	19:31	3.9	5.35	WELB		DIP	4		28		
MAY 24	17:59	4.0	5.29	WELB		DIP	6				
MAY 25	21:07	3.8	5.06	WELB		DIP	3				
MAY 26	09:48	3.9	4.51	WELB		DIP	3				
MAY 28	16:35	3.9	6.73	WELB		DIP	9				
MAY 29	17:59	3.9	10.3	WELB		DIP	27				
MAY 30	10:11	3.8	10.6	WELB		DIP	1				
JUN 01	16:59	3.9	7.05	WELB		DIP	3		25		
JUN 02	17:29	3.9	5.69	WELB		DIP	1				
JUN 03	12:39	4.1	5.54	WELB		DIP	2				
JUN 04	12:53	4.4	6.33	WELB		DIP	4				
JUN 04	15:56	3.0	0.608	15.7	L	D49	4		35		
JUN 04	16:03	3.0	0.885	15.1	L	D49	3		30		
JUN 04	16:12	3.0	2.17	13.3	L	D49	3		35		
JUN 04	16:19	3.0	1.40	12.4	L	D49	3		37		
JUN 04	16:28	3.0	1.32	11.2	L	D49	5		35		
JUN 04	16:37	3.0	6.38	WELB		DIP	1		33		
JUN 05	19:46	4.5	4.87	WELB		DIP	3				
JUN 06	20:35	4.4	4.87	WELB		DIP	1		17		
JUN 07	18:45	4.2	5.69	WELB		DIP	3				
JUN 08	18:37	4.0	5.09	WELB		DIP	5				
JUN 09	16:01	4.0	5.50	WELB		DIP	3				
JUN 10	20:21	3.9	11.7	WELB		DIP	3				
JUN 11	16:51	3.9	7.92	WELB		DIP	5				
JUN 12	18:11	4.0	5.73	WELB		DIP	1				
JUN 13	20:21	4.0	5.05	WELB		DIP	3				
JUN 14	19:53	3.9	4.85	WELB		DIP	0				
JUN 16	17:30	4.0	6.74	WELB		DIP	2				
JUN 18	16:34	6.0	6.55	WELB		DIP	2		29		
JUN 19	20:07	5.8	7.25	WELB		DIP	3				
JUN 20	18:17	5.7	7.94	WELB		DIP	2				
JUN 21	18:03	5.8	8.07	WELB		DIP	3				
JUN 23	10:00	6.3	9.02	WELB		DIP	4				
JUN 24	19:27	6.4	9.20	WELB		DIP	2				
JUN 25	12:32	6.7	7.30	WELB		DIP	1				
JUN 26	20:53	6.3	6.54	WELB		DIP	1				
JUN 27	20:16	6.4	5.77	WELB		DIP	1				
JUN 28	07:23	6.3	4.71	WELB		DIP	1				
JUN 29	07:29	7.0	4.49	WELB		DIP	3		8		
JUL 02	16:33	7.2	4.53	WELB		DIP	2				
JUL 04	18:06	8.7	3.31	WELB		DIP	1				
JUL 05	17:55	7.4	0.586	14.6	M	D49	3		6		
JUL 05	18:03	7.4	0.704	13.8	M	D49	1		6		
JUL 05	18:13	7.4	0.766	13.0	M	D49	2		11		
JUL 05	18:15	8.7	3.50	WELB		DIP	3		7		

CONTINUED

BRITISH COLUMBIA

FIVE MILE CREEK ABOVE CITY INTAKE - STATION NO. 08NJ168 (CONTINUED)

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)		DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JUL	05 18:21	7.4	0.617	12.2	M	D49	4																
JUL	05 18:29	7.4	0.759	11.1	M	D49	2		11														
JUL	05 18:39	7.4	3.43	WELB		DIP	2		15														
JUL	07 07:27	6.2	2.99	WELB		DIP	2																
JUL	12 17:52	9.8	2.19	WELB		DIP	1																
JUL	13 20:37	10.3	1.99	WELB		DIP	1																
JUL	17 07:34	7.4	1.27	WELB		DIP	1																
JUL	18 18:30	11.2	1.11	WELB		DIP	1																
JUL	19 17:59	11.2	1.00	WELB		DIP	1		13														
JUL	21 18:30	11.5	0.896	WELB		DIP	2																
JUL	26 14:20	10.0	1.22	WELB		DIP	0																
JUL	27 16:30	11.6	1.07	WELB		DIP	2		15														
JUL	30 19:53	12.9	0.712	WELB		DIP	4																
AUG	11 18:47	14.4	0.384	WELB		DIP	4		45														
AUG	13 16:13	14.5	0.350	WELB		DIP	4																
SEP	01 12:23	12.5	0.457	WELB		DIP	2																
SEP	03 16:55	11.2	0.342	WELB		DIP	4		43														
SEP	13 19:16	8.3	0.207	WELB		DIP	3																
SEP	19 18:51	6.2	0.192	WELB		DIP	2		38														
SEP	21 14:59	6.4	0.032	6.2	Z	DH48	0		34														
SEP	21 15:06	6.4	0.044	5.6	Z	DH48	1		17														
SEP	21 15:11	6.4	0.048	5.0	Z	DH48	1		20														
SEP	21 15:17	6.4	0.019	4.2	Z	DH48	0		15														
SEP	21 15:21	6.4	0.051	3.5	Z	DH48	2		18														
SEP	21 15:24	6.4	0.193	WELB		DIP	2		26														
SEP	24 10:57	6.8	0.165	WELB		DIP	2		29														
SEP	29 18:06	8.3	0.138	WELB		DIP	1																
OCT	11 18:13	3.2	0.212	WELB		DIP	3		46														
OCT	18 18:13	2.2	0.213	WELB		DIP	1																
OCT	27 07:06	1.2	0.261	WELB		DIP	1		36														
NOV	03 07:14	0.9	0.210	WELB		DIP	1		41														
NOV	10 07:07	2.0	1.72	WELB		DIP	8	G															
NOV	12 11:20	3.0	1.00	WELB		DIP	4	G	28														
NOV	15 12:13	2.0	0.146	6.3	Z	DH48	1		19														
NOV	15 12:18	2.0	0.183	5.7	Z	DH48	1		23														
NOV	15 12:23	2.0	0.147	5.0	Z	DH48	1		29														
NOV	15 12:33	2.0	0.185	4.3	Z	DH48	1		17														
NOV	15 12:40	2.0	0.203	3.7	Z	DH48	0		23														
NOV	15 12:44	2.0	0.864	WELB		DIP	2		24														
DEC	01 20:55	2.5	0.728	WELB		DIP	2																
DEC	08 18:07	2.2	0.556	WELB		DIP	2		25														
DEC	15 19:55	2.0	0.457	WELB		DIP	1																
DEC	24 15:15	1.8	0.320W	WELB		DIP	1		22														

NOTE: SINGLE VERTICAL LOCATED AT WELB (WATER'S EDGE LEFT BANK) FOR 1990

DISCHARGE SYMBOL(S): W - DAILY MEAN; ICE CONDITIONS
CONCENTRATION SYMBOL(S): G - ORGANIC MATERIAL PRESENT
VERTICAL SYMBOL(S): L - A SEDIMENT MEASUREMENT VERTICAL NOT AT THE REGULAR CROSS SECTION, FROM LEFT BANK
M - A SEDIMENT MEASUREMENT VERTICAL
Z - A SEDIMENT MEASUREMENT NOT AT THE REGULAR MEASUREMENT CROSS-SECTION

FIVE MILE CREEK ABOVE CITY INTAKE - STATION NO. 08NJ168

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1983	----CCCCCCCC	MANUAL	43 MAY 25	0 NOV 9 *	59.1MAY 29	547 *	---	---	---
1984	CCCCCCCCCCCC	MANUAL	41 JUN 15	0 APR 30	31.8JUN 15	241	0.712	0.712	---
1985	CCCCCCCCCCCC	MANUAL	45 JUN 8	0 APR 7	35.1JUN 8	288	0.914	0.81	12.4
1986	CCCCCCCCCCCC	MANUAL	162 MAY 27 *	0 APR 1	67.5MAY 28 *	256	0.780	0.80	7.4
1987	CCCCCCCCCCCC	MANUAL	14 APR 30	0 MAR 3	12.5MAY 1	140	0.395	0.70	15.7
1988	CCCCCCCCCCCC	MANUAL	66 MAY 13	0 MAY 6	42.9MAY 13	163	0.516	0.66	14.0
1989	CCCCCCCCCCCC	MANUAL	33 MAY 10	0 JAN 8	14.7MAY 10	173	0.593	0.65	11.8
1990	CCCCCCCCCCCC	MANUAL	27 MAY 29	0 MAY 3	13.7MAY 29	125	0.348	0.60	12.8

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH

* - EXTREME FOR PERIOD OF RECORD

BRITISH COLUMBIA

FLATHEAD RIVER AT FLATHEAD - STATION NO. 08NP001

SUSPENDED SEDIMENT FOR 1990

LOCATION: LAT 49 00 02 N LONG 114 28 35 W
DRAINAGE AREA: 1 110 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 45 700 TONNES FOR THE PERIOD JAN 01 TO DEC 31

DAY	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	10.7 B	3 S	2.77	5.10B	3	1.32	4.79B	4	1.66	1
2	9.90B	3	2.57	5.02B	3	1.30	4.98B	4	1.72	2
3	9.06B	2 S	1.57	6.10B	3 S	1.58	5.22B	4 S	1.80	3
4	9.00B	2	1.56	6.98B	4	2.41	5.55B	4	1.92	4
5	8.95B	2	1.55	6.65B	4	2.30	5.70B	4	1.97	5
6	9.03B	3 S	2.34	6.28B	3	1.63	5.90B	3	1.53	6
7	9.20B	3	2.38	6.08B	2 S	1.05	6.08B	3 S	1.58	7
8	9.45B	3	2.45	6.05B	2	1.05	6.23B	5 S	2.69	8
9	9.85	3	2.55	6.39B	3 S	1.66	6.09B	10	5.26	9
10	11.3	3 S	2.93	6.65B	1 S	0.575	5.88B	10 S	5.08	10
11	8.00B	3	2.07	7.22B	6	3.74	5.90B	7	3.57	11
12	7.65B	3	1.98	6.20B	5	2.68	5.91B	5	2.55	12
13	7.60B	4 S	2.63	5.32B	4	1.84	6.02	4	2.08	13
14	7.75B	4	2.68	4.63B	3 S	1.20	5.90	2 S	1.02	14
15	8.30B	4	2.87	4.45B	3	1.15	5.78	2	0.999	15
16	8.20B	5	3.54	4.32B	2	0.746	5.65	1	0.488	16
17	7.20B	3 S	1.87	4.40B	2 S	0.760	5.65	1 S	0.488	17
18	6.80B	2	1.18	4.62B	3	1.20	5.70	1	0.492	18
19	6.92B	2	1.20	4.90B	3	1.27	5.63	1	0.486	19
20	7.08B	2 S	1.22	5.20B	3	1.35	5.89	2	1.02	20
21	7.60B	4	2.63	5.60B	2 S	0.968	6.21	4 S	2.15	21
22	8.14B	5	3.52	6.03B	2	1.04	6.02	5	2.60	22
23	7.84B	4	2.71	6.27B	8	4.33	5.18B	4	1.79	23
24	7.68B	4 S	2.65	6.38B	23 S	12.7	5.20B	4 S	1.80	24
25	8.00B	5	3.46	6.38B	21	11.6	5.40B	4	1.87	25
26	7.00B	6	3.63	6.22B	13	6.99	5.72B	3	1.48	26
27	6.42B	4 S	2.22	5.85B	7	3.54	6.14	3	1.59	27
28	6.28B	4	2.17	5.45B	4 S	1.88	6.08	2 S	1.05	28
29	6.25B	4	2.16				6.24	3	1.62	29
30	5.40B	4	1.87				9.76	4	2.34	30
31	5.14B	4 S	1.78				7.89	7	4.77	31
TOTAL	247.69		73	160.74		74	181.29		61	

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	10.2	18	15.9	48.4	13 S	54.4	172	63 S	936	1
2	14.4	46 S	57.2	49.6	13 S	55.7	145	45 S	564	2
3	22.8	50 S	98.5	53.7	19 S	88.2	122	35 S	369	3
4	30.7	50 S	133	63.8	32 S	176	112	45 S	513	4
5	31.7	34 S	93.1	89.1	71 S	547	131	41 S	464	5
6	30.8	21 S	55.9	134	301 S	3 480	115	34 S	338	6
7	30.3	24 S	62.8	138	85 S	1 010	121	42 S	439	7
8	30.8	18 S	47.9	107	27 S	250	132	39 S	445	8
9	29.8	12 S	30.9	85.6	30 S	222	120	26 S	270	9
10	26.5	11 S	25.2	75.2	25 S	162	136	41 S	482	10
11	25.5	10 S	22.0	72.3	20 S	125	146	52 S	656	11
12	24.8	11 S	23.6	75.5	22 S	144	141	43 S	524	12
13	25.5	11 S	24.2	76.3	20 S	132	119	32 S	329	13
14	25.5	15 S	33.0	74.6	20 S	129	106	28 S	256	14
15	29.0	22 S	55.1	70.9	19 S	116	101	32 S	279	15
16	32.7	28 S	79.1	68.1	27 S	159	104	36 S	323	16
17	37.1	33 S	106	70.7	31 S	189	115	47 S	467	17
18	43.8	51 S	193	77.6	45 S	168	125	51 S	551	18
19	55.7	88 S	423	81.7	22 S	155	130	46 S	517	19
20	73.9	135 S	862	83.4	30 S	216	137	46 S	544	20
21	87.7	113 S	856	84.3	33 S	240	139	42 S	504	21
22	96.1	102 S	847	83.5	35 S	253	128	38 S	420	22
23	106	103 S	943	95.2	52 S	428	134	37 S	428	23
24	109	97 S	914	126	103 S	1 120	140	49 S	593	24
25	99.6	65 S	559	154	107 S	1 420	134	38 S	440	25
26	84.8	42 S	308	138	96 S	1 140	127	29 S	318	26
27	73.0	26 S	164	122	79 S	833	117	29 S	293	27
28	64.7	19 S	106	128	72 S	796	105	30 S	272	28
29	56.1	15 S	72.7	155	140 S	1 870	90.8	25 S	196	29
30	50.6	15 S	65.6	188	226	3 670	85.2	28 S	206	30
31				183	163 S	2 580				31
TOTAL	1 459.1		7 277	3 052.5		21 928	3 750		12 936	

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

BRITISH COLUMBIA

FLATHEAD RIVER AT FLATHEAD - STATION NO. 08NP001

SUSPENDED SEDIMENT FOR 1990

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	86.1	24 S	179	21.1	3 S	5.47	9.74	1	0.842	1
2	80.0	19	131	20.3	3	5.26	9.50	2 S	1.64	2
3	76.9	19 S	126	20.0	2 S	3.46	9.06	1	0.783	3
4	65.0	20	112	18.8	3	4.87	8.87	1 S	0.766	4
5	57.8	21 S	105	17.4	3 S	4.51	8.71	1	0.753	5
6	54.6	20	94.3	16.8	2	2.90	8.45	2 S	1.46	6
7	52.6	19 S	86.3	16.1	2 S	2.78	8.19	1	0.708	7
8	50.1	17	73.6	15.6	2	2.70	8.07	1 S	0.697	8
9	46.2	13 S	51.9	15.1	4 S	5.22	7.98	1	0.689	9
10	44.2	12	45.8	14.9	4	5.15	7.89	1 S	0.682	10
11	42.7	12 S	44.3	14.4	3 S	3.73	7.84	1	0.677	11
12	40.8	12	42.3	14.3	3	3.71	7.75	1 S	0.670	12
13	39.4	13 S	44.6	13.9	3 S	3.60	7.63	1	0.659	13
14	36.8	14 S	44.1	13.6	3	3.53	7.67	1 S	0.663	14
15	34.0	13 S	38.2	12.7	3 S	3.29	7.48	1	0.646	15
16	31.7	10 S	27.4	12.5	3	3.24	7.47	2 S	1.29	16
17	30.1	7 S	18.2	12.4	4 S	4.29	7.34	1	0.634	17
18	28.0	7 S	16.9	12.1	3	3.14	7.21	1 S	0.623	18
19	26.7	6 S	13.8	11.7	3 S	3.03	7.14	1	0.617	19
20	25.3	3 S	6.56	11.7	3	3.03	7.15	1 S	0.618	20
21	24.1	5 S	10.4	11.6	3 S	3.01	7.17	1	0.619	21
22	22.7	5 S	9.81	11.5	3	1.99	6.79	1 S	0.587	22
23	21.8	3 S	5.65	11.4	2 S	1.97	6.81	1	0.588	23
24	21.7	4 S	7.50	11.1	2	1.92	6.86	1 S	0.593	24
25	26.4	12 S	27.4	11.3	3 S	2.93	6.63	1	0.573	25
26	33.0	17 S	48.5	11.4	3	2.95	6.46	1 S	0.558	26
27	30.9	14 S	37.4	10.8	2 S	1.87	6.35	1	0.549	27
28	27.9	10 S	24.1	10.3	2	1.78	6.30	1 S	0.544	28
29	25.1	8 S	17.3	10.0	2 S	1.71	6.35	1	0.549	29
30	22.9	6 S	11.9	9.82	1	0.848	6.25	1	0.540	30
31	22.0	3 S	5.70	9.73	1 S	0.841				31
TOTAL	1 227.5		1 507	424.35		99	227.11		22	

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	6.31	1 S	0.545	17.3	15	22.4	15.7	2	2.71	1
2	6.48	2 S	1.12	15.2	5 S	6.57	15.4	2	2.66	2
3	6.52	2	1.13	13.3	2	2.30	15.1	2	2.61	3
4	7.76	7 S	4.69	12.4	2	2.14	14.5	2 S	2.51	4
5	12.4	15	16.1	11.8	2 S	2.04	14.0	2	2.42	5
6	13.5	6 S	7.00	10.7	2 S	1.85	13.4	2	2.32	6
7	10.8	1	0.933	10.2	2	1.76	13.2	2	2.28	7
8	9.33	1 S	0.806	10.2	2	1.76	12.9	2	2.23	8
9	8.65	1	0.747	11.8	6	6.12	13.0	3	3.37	9
10	9.80	3 S	2.54	44.3	130 S	498	14.4	6	7.46	10
11	9.90	2	1.71	87.3	87 S	656	14.2	4 S	4.91	11
12	9.37	1 S	0.910	62.4	24	129	13.1	4	4.53	12
13	9.25	1	0.799	46.7	11	52.5	12.0 B	3	3.19	13
14	8.85	1 S	0.765	39.7	10 S	34.3	12.0 B	3	3.11	14
15	8.41	1	0.727	33.6	8	23.2	12.2 B	2	2.11	15
16	8.71	2 S	1.51	28.3	6 S	14.7	12.3 B	2	2.13	16
17	8.22	2	1.42	25.5	6 S	13.2	12.2 B	2	2.11	17
18	8.19	2	1.42	23.3	5	10.1	9.00B	1 S	0.778	18
19	8.28	2	1.43	20.9	4	7.22	7.60B	1	0.657	19
20	7.92	1	0.684	19.6	3	5.08	7.35B	1	0.635	20
21	7.87	1	0.680	18.2	2 S	3.14	7.10B	1	0.613	21
22	7.88	2 S	1.36	18.0	2	3.11	7.20B	1	0.622	22
23	7.46	1	0.645	18.9	4 S	6.53	7.58B	1	0.655	23
24	7.36	1	0.636	23.3	8	16.1	8.14B	1	0.703	24
25	7.41	1	0.640	21.8	3	5.65	8.35B	1	0.721	25
26	8.54	2	1.48	21.1	2	3.65	8.38B	1	0.724	26
27	9.70	3 S	2.51	19.8	2 S	3.42	8.39B	1	0.725	27
28	9.65	3	2.50	18.4	2	3.18	6.82B	1	0.589	28
29	9.75	3	2.53	18.9	2	3.26	6.76B	1	0.584	29
30	10.1	3 S	2.62	16.9	2	2.92	8.00B	3	2.07	30
31	15.7	16	21.7				9.00B	4	3.11	31
TOTAL	280.07		84	739.2		1 541	339.57		66	

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

FLATHEAD RIVER AT FLATHEAD - STATION NO. 08NP001

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)		SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 01	11:30	0.1	10.7	W	30.0	X	DIP	4	164														
JAN 03	14:00	0.5	9.06	B	48.0		DH48	2	148														
JAN 06	10:00	0.1	9.03	W	30.0	X	DIP	3															
JAN 10	10:00	0.1	11.5		30.0	X	DIP	4															
JAN 13	11:00	0.1	7.60	W	30.0	X	DIP	4	167														
JAN 17	10:40	0.1	7.20	W	30.0	X	DIP	3															
JAN 20	13:40	0.1	7.08	W	30.0	X	DIP	2															
JAN 24	10:30	0.1	7.68	W	30.0	X	DIP	4															
JAN 27	13:30	0.1	6.42	W	30.0	X	DIP	5															
JAN 31	11:30	0.1	5.14	W	30.0	X	DIP	4	170														
FEB 03	11:00	0.1	6.10	W	30.0	X	DIP	4															
FEB 07	12:00	0.1	6.08	W	30.0	X	DIP	3	168														
FEB 09	13:00	1.0	6.19	B	48.0		DH48	4	167														
FEB 10	12:00	0.1	6.65	W	30.0	X	DIP	1															
FEB 14	16:30	0.1	4.63	W	30.0	X	DIP	4	190														
FEB 17	16:30	0.1	4.40	W	30.0	X	DIP	3															
FEB 21	16:30	0.1	5.60	W	30.0	X	DIP	3	158														
FEB 24	16:30	0.1	6.38	W	30.0	X	DIP	27															
FEB 28	10:00	0.1	5.45	W	30.0	X	DIP	4	173														
MAR 03	09:00	0.1	5.22	W	30.0	X	DIP	5															
MAR 07	10:00	0.1	6.08	W	30.0	X	DIP	3	168														
MAR 08	13:14	0.1	6.23	B	48.0		DH48	6	164														
MAR 10	17:00	0.1	5.88	W	30.0	X	DIP	9															
MAR 14	12:00	1.0	5.87		30.0	X	DIP	2															
MAR 17	16:30	5.0	5.66		30.0	X	DIP	1															
MAR 21	15:00	5.0	6.25		48.0		D49	5	163														
MAR 24	15:00	4.0	5.20	W	48.0		D49	4															
MAR 28	17:30	7.0	6.12		48.0		D49	3															
APR 02	17:00	7.0	15.2		48.0		D49	51	139														
APR 03	17:00	7.0	24.7		48.0		D49	49															
APR 04	17:30	3.0	31.8		48.0		D49	51															
APR 05	10:41	1.0	5.16		38.0	M	D49	28	163														
APR 05	10:46	1.0	6.72		45.0	M	D49	32	144														
APR 05	10:48	1.0	32.3		48.0		D49	33	152														
APR 05	10:51	1.0	6.70		49.0	M	D49	32	169														
APR 05	10:55	1.0	7.25		54.0	M	D49	30	145														
APR 05	10:58	1.0	6.46		60.0	M	D49	30	147														
APR 05	17:00	6.0	31.7		48.0		D49	30															
APR 06	13:00	5.0	30.3		48.0		D49	20															
APR 07	16:30	7.0	29.9		48.0		D49	57															
APR 08	18:15	4.0	30.6		48.0		D49	14															
APR 09	17:00	0.1	29.5		48.0		D49	14															
APR 10	17:30	3.0	26.6		48.0		D49	12															
APR 11	18:15	6.0	24.9		48.0		D49	10															
APR 12	18:00	7.0	24.7		48.0		D49	12	140														
APR 13	17:00	6.0	25.6		48.0		D49	11															
APR 14	18:15	7.0	25.9		48.0		D49	20															
APR 15	18:30	7.0	29.6		48.0		D49	23															
APR 16	18:45	7.5	33.6		48.0		D49	28															
APR 17	11:30	4.0	37.1		48.0		D49	10															
APR 18	11:00	5.0	42.6		48.0		D49	54															
APR 19	18:00	9.0	55.1		48.0		D49	108															
APR 20	18:30	6.0	78.2		48.0		D49	159															
APR 21	18:00	5.0	89.0		48.0		D49	99															
APR 22	18:45	5.0	99.2		48.0		D49	116	127														
APR 23	19:00	5.0	109		48.0		P61	107															
APR 24	17:00	9.0	108		48.0		P61	105															
APR 25	18:30	4.0	96.0		48.0		P61	61															
APR 26	19:00	5.0	80.6		48.0		P61	39															
APR 27	18:00	5.0	70.5		48.0		P61	21															
APR 28	18:30	3.0	62.5		48.0		P61	18															
APR 29	16:30	4.0	54.7		48.0		P61	15															
APR 30	16:30	9.0	49.4		48.0		P61	16															
MAY 01	10:45	4.0	48.3		48.0		P61	12															
MAY 02	16:00	9.0	49.5		48.0		P61	14	137														
MAY 03	19:00	11.0	54.9		48.0		P61	18															
MAY 04	19:00	11.0	68.4		48.0		P61	40															
MAY 05	18:00	13.0	94.9		48.0		P61	90															
MAY 06	18:45	7.0	146		48.0		P61	414	128	20	21	26	34	44	57	73	90	98	100		43	36	21
MAY 07	15:00	5.0	135		48.0		P61	31															
MAY 08	17:00	4.0	101		48.0		P61	29															
MAY 09	13:00	5.0	84.8		48.0		P61	31															
MAY 10	18:30	7.0	73.0		48.0		P61	23															
MAY 11	08:00	3.5	72.4		48.0		P61	20															
MAY 12	19:00	6.0	76.6		48.0		P61	22															
MAY 13	19:00	5.5	76.3		48.0		P61	20															
MAY 14	19:00	6.0	73.2		48.0		P61	20															
MAY 15	11:00	6.0	71.3		48.0		P61	19	139														
MAY 15	14:50	4.0	69.9		48.0		D74	17	134														
MAY 15	15:02	4.0	12.6		39.3	M	D74	15	135														
MAY 15	15:08	4.0	69.9		48.0		D74	18	136														
MAY 15	15:14	4.0	13.6		44.8	M	D74	16	138														
MAY 15	15:28	4.0	15.4		50.3	M	D74	17	133														
MAY 15	15:41	4.0	16.7		54.9	M	D74	16	145														
MAY 15	15:57	4.0	11.6		62.5	M	D74	15	136														
MAY 16	18:00	6.0	67.8		48.0		P61	31	130														
MAY 17	19:00	7.0	71.7		48.0		P61	30															
MAY 18	11:00	5.0	77.8		48.0		P61	23															
MAY 19	17:30	7.0	81.8		48.0		P61	25															
MAY 20	15:30	7.0	83.4		48.0		P61	30															
MAY 21	18:30	8.0	84.3		48.0		P61	33															
MAY 22	18:00	9.0	82.9		48.0		P61	38															
MAY 23	18:42	12.0	101		48.0		P61	62															
MAY 24	18:20	7.0	133		48.0		P61	136															
MAY 25	18:00	7.0	157		48.0		P61	102															
MAY 26	13:00	7.0	137		48.0		P61	111	116														
MAY 27	16:00	7.0	119		48.0		P61	82															
MAY 28	17:30	8.0	131		48.0		P61	79															
MAY 29	09:30	5.5	151		48.0		P61	140															
MAY 31	12:50	7.0	35.4		39.0	M	P61	100															
MAY 31	13:00	7.0	40.7		46.0	M	P61	229															
MAY 31	13:15	7.0	192		48.0		P61	177															
MAY 31	13:30	7.0	36.6		52.0	M	P61	191															
MAY 31	13:40	7.0	36.7		57.0	M	P61	145															
MAY 31	14:00	7.0	42.7		64.0	M	P61	122															
JUN 02	14:30	5.0	176		WELB	X	DIP	54	119														
JUN 02	14:30	5.0	140		WELB	X	DIP	56															
JUN 03	11:00	6.0	121		WELB	X	DIP	54															
JUN 04	10:00	8.0	139		WELB	X	DIP	58															

CONTINUED

FLATHEAD RIVER AT FLATHEAD - STATION NO. 08NP001 (CONTINUED)

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JUN 05	12:00	6.0	131	WELB	X	DIP	40															
JUN 06	08:35	5.0	118	48.0		D49	37															
JUN 07	17:30	9.0	126	48.0		D49	56															
JUN 08	15:30	7.0	130	48.0		D49	37															
JUN 09	18:30	10.0	117	MID	X	DH48	24															
JUN 10	18:00	7.0	141	MID	X	DH48	48															
JUN 11	18:00	7.0	144	MID	X	DH48	57	114														
JUN 12	18:00	5.0	137	MID	X	DH48	37															
JUN 13	18:00	7.0	115	MID	X	DH48	33															
JUN 14	18:30	7.0	103	MID	X	DH48	26															
JUN 15	18:30	10.0	99.2	MID	X	DH48	36	136														
JUN 16	14:20	10.0	105	MID	X	DH48	39															
JUN 17	19:00	10.0	116	MID	X	DH48	55															
JUN 18	13:30	9.0	128	MID	X	DH48	60															
JUN 19	15:00	10.0	132	MID	X	DH48	51															
JUN 20	17:00	10.0	140	MID	X	DH48	52	115														
JUN 21	13:40	9.0	140	MID	X	DH48	47															
JUN 22	14:30	10.0	128	MID	X	DH48	39															
JUN 23	14:00	10.0	136	MID	X	DH48	37															
JUN 24	13:40	10.0	142	MID	X	DH48	57															
JUN 25	21:30	10.0	128	MID	X	DH48	32	125														
JUN 26	21:30	11.0	120	MID	X	DH48	22															
JUN 27	15:00	11.0	116	MID	X	DH48	29															
JUN 28	19:10	11.0	99.1	48.0		D49	29															
JUN 29	08:30	7.0	93.1	48.0		D49	26															
JUN 30	21:00	12.0	83.3	48.0		D49	27	120														
JUL 01	10:00	14.0	84.0	48.0		D49	20															
JUL 03	12:00	9.0	79.4	48.0		D49	20															
JUL 05	11:30	10.0	58.3	48.0		D49	21															
JUL 07	13:00	12.0	52.8	48.0		D49	16															
JUL 09	17:40	15.0	45.7	48.0		D49	12	114														
JUL 11	08:20	9.0	7.97	39.0	M	D49	12	127														
JUL 11	08:25	9.0	8.48	45.0	M	D49	14	121														
JUL 11	08:30	9.0	44.3	48.0		D49	12	126														
JUL 11	08:35	9.0	9.47	49.0	M	D49	15	125														
JUL 11	08:40	9.0	10.2	54.0	M	D49	18	142														
JUL 11	08:45	9.0	8.17	61.0	M	D49	13	129														
JUL 13	13:30	14.0	39.8	48.0		D49	13															
JUL 14	19:00	19.0	36.0	48.0		D49	14															
JUL 15	19:00	18.0	33.3	48.0		D49	12															
JUL 16	21:40	15.0	30.7	48.0		D49	8	119														
JUL 17	12:05	11.0	30.5	48.0		D49	7															
JUL 18	19:00	15.0	27.5	48.0		D49	7															
JUL 19	21:00	12.0	26.2	48.0		D49	6															
JUL 20	19:00	15.0	24.9	48.0		D49	2															
JUL 21	18:00	17.0	23.9	48.0		D49	6	154														
JUL 22	21:30	18.0	22.2	48.0		D49	5															
JUL 23	19:30	15.0	21.8	48.0		D49	3															
JUL 24	12:40	12.0	21.7	48.0		D49	4															
JUL 25	13:00	11.0	57.3	48.0		D49	17															
JUL 26	13:30	12.0	33.2	48.0		D49	16	126														
JUL 27	15:30	15.0	30.5	48.0		D49	14															
JUL 28	17:00	16.0	27.2	48.0		D49	10															
JUL 29	20:00	17.0	24.2	48.0		D49	7															
JUL 30	21:30	16.0	22.2	48.0		D49	7															
JUL 31	12:40	14.0	21.9	48.0		D49	2	131														
AUG 01	16:10	17.0	21.0	48.0		D49	3															
AUG 03	16:00	16.0	20.0	48.0		D49	2															
AUG 05	21:20	17.0	16.5	48.0		D49	3															
AUG 07	19:36	17.0	15.9	48.0		D49	2															
AUG 09	17:00	18.0	15.2	48.0		D49	5	132														
AUG 11	12:00	15.0	14.4	48.0		D49	4															
AUG 13	19:45	18.0	13.9	48.0		D49	3															
AUG 15	09:30	12.0	12.8	48.0		D49	3															
AUG 17	11:00	13.0	12.3	48.0		D49	4															
AUG 19	10:30	12.0	11.7	48.0		D49	3	143														
AUG 21	10:25	15.0	11.6	48.0		DH48	9	164														
AUG 21	10:34	15.0	11.6	48.0		DH48	2															
AUG 21	10:35	15.0	2.64	14.0	Z	DH48	9	163														
AUG 21	10:40	12.0	2.20	19.0	Z	DH48	5	165														
AUG 21	10:45	12.0	2.14	26.0	Z	DH48	5	173														
AUG 21	10:50	12.0	2.53	34.0	Z	DH48	9	170														
AUG 21	10:55	12.0	2.06	37.0	Z	DH48	8	165														
AUG 21	11:00E	12.0	2.64	14.0	Z	DH48	5															
AUG 21	11:05E	12.0	2.20	19.0	Z	DH48	1															
AUG 21	11:10E	12.0	2.14	26.0	Z	DH48	2															
AUG 21	11:15E	12.0	2.53	34.0	Z	DH48	1															
AUG 21	11:20E	12.0	2.06	37.0	Z	DH48	9															
AUG 21	12:25	12.0	11.6	48.0		DH48	5															
AUG 21	13:20	15.0	11.6	48.0		D49	2															
AUG 23	18:00	16.0	11.3	48.0		D49	3															
AUG 25	09:00	8.0	11.0	48.0		D49	2															
AUG 27	10:00		10.7	48.0		D49	2															
AUG 29	17:30		10.0	48.0		D49	2	151														
AUG 31	18:00		9.72	48.0		D49	1															
SEP 02	17:00		9.41	48.0		D49	2															
SEP 04	13:00		8.90	48.0		D49	1															
SEP 06	12:30	14.0	8.44	48.0		D49	2															
SEP 08	19:00	14.0	8.06	48.0		D49	1	153														
SEP 10	19:00	15.0	7.86	48.0		D49	1															
SEP 12	16:30	15.0	7.72	48.0		D49	1															
SEP 14	17:20	14.0	7.64	48.0		D49	1															
SEP 16	16:30	13.0	7.51	48.0		D49	2															
SEP 18	17:00	13.0	7.20	48.0		D49	0	146														
SEP 20	16:30	13.0	7.18	48.0		D49	2															
SEP 22	17:00	13.0	6.73	48.0		D49	2															
SEP 24	17:00	13.0	6.84	48.0		D49	1															
SEP 26	17:00	13.0	6.44	48.0		D49	2															
SEP 28	17:00	11.0	6.30	48.0		D49	1															
OCT 01	12:55	7.0	6.28	48.0		DH48	1	148														
OCT 02	17:00	5.0	6.51	48.0		DH48	2	150														
OCT 04	18:00	8.0	8.23	48.0		DH48	12															
OCT 06	14:20	6.0	12.7	48.0		DH48	2															
OCT 08	16:30	7.0	9.13	48.0		DH48	1															
OCT 10	17:10	7.0	10.2	48.0		DH48	4															
OCT 12	17:20	5.0	9.30	48.0		DH48	0															
OCT 14	17:00	5.0	8.72	48.0		DH48	1	158														
OCT 16	14:30	5.0	8.66	48.0		DH48	2															
OCT 22	17:00	5.0	7.85	48.0		DH48	2															
OCT 27	20:00	2.0	9.69	48.0		DH48	3															
OCT 30	15:30	5.0	10.0	48.0		DH48	3															
NOV 02	12:00	4.0	15.1	48.0		DH48	4	146														
NOV 05	11:10	2.0	11.9	48.0		DH48	2	146														
NOV 06	16:00	0.1	10.5	48.0		DH48	2															
NOV 10	13:30	3.0	47.1	WERB	X	DIP	174	139	14	21	31	51	75	92	98	100				8	71	21
NOV 11	15:00	4.0	85.7	WERB	X	DIP	55	122														
NOV 14	15:00	3.0	38.9	48.0		DH48	10															
NOV 16	12:00	2.5	28.6	48.0		DH48	6															
NOV 16	12:05E	2.5	5.24	6.1	Z	DH48	6															
NOV 16	12:10E	2.5	5.14	12.2	Z	DH48	7															
NOV 16	12:15E	2.5	6.14	18.3	Z	DH48	8															

CONTINUED

FLATHEAD RIVER AT FLATHEAD - STATION NO. 08NP001 (CONTINUED)

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m^3/s)	SINGLE VERTICAL SAMPLING (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
NOV 16	12:20E	2.5	6.16	29.0	Z	DH48	6															
NOV 16	12:25E	2.5	5.81	29.6	Z	DH48	6															
NOV 17	16:30	2.0	25.1	48.0		DH48	10															
NOV 21	17:00	2.0	17.9	48.0		DH48	2															
NOV 23	14:20	2.0	18.9	48.0		DIP	4															
NOV 27	14:00	0.1	19.9	WERB	X	DIP	2															
DEC 04	15:15	1.0	14.3	48.0		DH48	5	142														
DEC 11	11:30	1.0	14.2	WERB	X	DIP	4															
DEC 18	12:30	0.1	9.00 W	WERB	X	DIP	1	173														

NOTE: SINGLE VERTICAL IS LOCATED AT 48.0 METRES FOR 1990

TIME SYMBOL: E - ESTIMATED
DISCHARGE SYMBOL(S): B - ICE CONDITIONS W - DAILY MEAN; ICE CONDITIONS
VERTICAL SYMBOL(S): M - A SEDIMENT MEASUREMENT VERTICAL
X - NOT AT REGULAR SINGLE SAMPLE VERTICAL
Z - A SEDIMENT MEASUREMENT NOT AT THE REGULAR MEASUREMENT CROSS-SECTION

FLATHEAD RIVER AT FLATHEAD - STATION NO. 08NP001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)				SAMPLED CONCENTRATION MINIMUM (MG/L)				SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)				SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)		SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL STANDARD ERROR OF MEAN %
1984	----CCCCCCCCC	MANUAL	388	MAY	31		0	OCT	3	*	5 300	MAY	31		28 400		---	---	---
1985	CCCCCCCCCCCC	MANUAL	331	JUN	8		1	JAN	11		3 620	JUN	8		43 200	*	118	118	---
1986	CCCCCCCCCCCC	MANUAL	687	APR	22	*	1	AUG	16		7 470	MAY	29	*	72 900		200	159	25.6
1987	CCCCCCCCCCCC	MANUAL	426	APR	29		0	MAR	24		6 130	MAY	1		49 500		136	151	16.3
1988	CCCCCCCCCCCC	MANUAL	327	MAY	11		0	JUL	21		3 310	MAY	12		23 900		65.4	110	21.1
1989	CCCCCCCCCCCC	MANUAL	331	MAY	7		0	SEP	18		4 780	MAY	7		41 700		114	127	17.1
1990	CCCCCCCCCCCC	MANUAL	414	MAY	6		0	SEP	18		3 670	MAY	30		45 700		125	126	14.0

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH * - EXTREME FOR PERIOD OF RECORD

FORDING RIVER ABOVE CLODE CREEK - STATION NO. 08NK025

LOCATION: LAT 50 12 04 N LONG 114 52 57 W
DRAINAGE AREA: 96.3 km^2
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)				SAMPLED CONCENTRATION MINIMUM (MG/L)				SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)				SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)		SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL STANDARD ERROR OF MEAN %
1975	CCCCCCCCCCCC	MANUAL	18	JUN	20	*	1	JUN	30	*	25.0	JUN	20	*	370	*	1.01	1.01	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH * - EXTREME FOR PERIOD OF RECORD

FORDING RIVER AT THE MOUTH - STATION NO. 08NK018

LOCATION: LAT 49 53 39 N LONG 114 51 53 W
DRAINAGE AREA: 619 km^2
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)				SAMPLED CONCENTRATION MINIMUM (MG/L)				SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)				SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)		SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL STANDARD ERROR OF MEAN %
1970	CCCCCCCCCCCC	MANUAL	199	MAY	26		1	JAN	6		940	MAY	26		7 390		20.2	20.2	---
1971	CCCCCCCCCCCC	MANUAL	201	MAY	11		2	JUN	30		473	JUN	9		10 900		29.8	25.0	19.1
1972	---CCCCCCCCC	MANUAL	409	MAY	17		0	SEP	12	*	3 250	JUN	2		36 400		---	---	---
1973	CCCCCCCCCCCC	MANUAL	231	MAY	17		0	NOV	19		869	MAY	18		6 520		19.0	23.0	14.8
1974	CCCCCCCCCCCC	MANUAL	625	JUN	13	*	1	FEB	12		6 820	JUN	17	*	58 000	*	159	57.0	59.7
1975	CCCCCCCCCCCC	MANUAL	192	JUN	3		1	NOV	4		907	JUN	3		12 400		33.9	52.4	51.1
1976	CCCCCCCCCCCC	MANUAL	189	MAY	10		2	JAN	13		809	MAY	11		9 050		24.7	47.7	46.7
1977	CCCCCCCCCCCC	MANUAL	104	JUN	8		0	JUN	22		262	JUN	8		2 620		7.55	42.0	47.0

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH * - EXTREME FOR PERIOD OF RECORD

FORDING RIVER BELOW CLODE CREEK - STATION NO. 08NK021

LOCATION: LAT 50 12 05 N LONG 114 52 57 W
DRAINAGE AREA: 104 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1971	----P-P-PPP-	MANUAL	330 MAY 12	0 OCT 22 *	--- ---	---	---	---	---
1972	----CCCCCCCC	MANUAL	302 MAY 31	0 AUG 9	665 MAY 31 *	3 580 *	---	---	---
1973	CCCCCCCCCCCC	MANUAL	181 APR 26	0 FEB 4	83.7MAY 26	749	2.18	2.18	---
1974	CCCCCCCCCCCC	MANUAL	367 APR 16 *	0 SEP 18	470 JUN 15	3 560	9.90	6.04	63.9
1976	CCCCCCCCCCCC	MANUAL	16 MAY 9	0 JUN 22	16.0MAY 10	247	0.738	4.27	66.7
1977	CCCCCCCCCCCC	MANUAL	133 SEP 16	0 MAR 28	13.0SEP 15	261	0.738	3.39	64.9

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

FORREST KERR CREEK ABOVE 460 M CONTOUR - STATION NO. 08CG006

LOCATION: LAT 56 54 56 N LONG 130 43 15 W
DRAINAGE AREA: 311 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JUN-OCT MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1982	--PPCCCCCC--	MANUAL	1 800 SEP 3 *	1 MAY 1 *	18 800 SEP 3 *	367 000 *	2 390	2 390	---
1983	--PP-PPP-P--	MANUAL	554 JUN 4	1 MAR 23	--- ---	---	---	---	---
1984	-PP-PP-PP---	MANUAL	289 AUG 5	3 MAR 20	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

FORT NELSON RIVER ABOVE MUSKWA RIVER - STATION NO. 10CC002

LOCATION: LAT 58 40 15 N LONG 122 38 15 W
DRAINAGE AREA: 22 800 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MAY-JUL MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1979	---PCCP-----	MANUAL	6 830 JUL 4	269 APR 28	696 000 JUL 4	4 700 000	---	---	---
1980	---PCCC-----	MANUAL	7 210 JUL 18	130 MAY 12	329 000 JUN 21	3 370 000	36 600	36 600	---
1982	----CCCCCC--	MANUAL	7 810 MAY 19	9 OCT 29 *	1 010 000 MAY 19	8 180 000	88 400	62 500	41.5
1983	----CCCCCP--	MANUAL	7 130 JUN 21	27 OCT 15	440 000 JUN 21	3 450 000	35 900	53 600	32.4
1984	----CCCP-P--	MANUAL	17 800 MAY 18 *	51 AUG 24	1 840 000 MAY 18 *	12 200 000 *	133 000	73 400	31.7

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

FRASER RIVER AT HANSARD - STATION NO. 08KA004

LOCATION: LAT 54 04 43 N LONG 121 50 52 W
DRAINAGE AREA: 18 000 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAY 10	09:10	7.5	738	H 114	D49	161	74														
JUN 03	15:28	7.0	2530	H 114	D49	332	69	10	15	28	47	63	76	82	89	95	100		24	61	15
OCT 17	12:52	2.0	186	H 114	D49	18	101														

NOTE: SINGLE VERTICAL IS LOCATED AT 114 METRES FOR 1990

DISCHARGE SYMBOL(S): H - DAILY MEAN

FRASER RIVER AT HANSARD - STATION NO. 08KA004

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)				SAMPLED CONCENTRATION MINIMUM (MG/L)				SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)				SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)		SUMMARY : MAY-SEP MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	HISTORICAL STANDARD ERROR OF MEAN %
1972	----CCCCCCC-	MANUAL	933	MAY 14			5	NOV 29			202 000	JUN 1			4 790 000	*	30 700	30 700	---
1973	---PCCCCCC--	MANUAL	1 250	JUN 8			36	SEP 24			198 000	JUN 8			3 800 000		22 800	26 800	14.8
1974	PPP-CCCCCCC	MANUAL	904	JUN 17			3	MAR 18			123 000	JUN 17			2 910 000		18 100	23 900	15.4
1976	CCCCCCCCCCCC	MANUAL	1 650	AUG 18			1	JAN 23	*		221 000	JUL 2			3 370 000		21 500	23 300	11.5
1977	CCCCCCCCCCCC	MANUAL	650	JUN 9			1	MAR 8			103 000	JUN 9			2 480 000		14 200	21 500	12.8
1978	CCCCCCCCCCCC	MANUAL	651	JUN 4			4	JAN 19			62 200	JUN 7			1 760 000		10 300	19 600	14.9
1979	CCCCCCCCCCCC	MANUAL	790	MAY 28			2	JAN 23			82 700	JUN 6			2 220 000		13 900	18 800	13.8
1980	CCCCCCCCCCCC	MANUAL	699	APR 30			2	DEC 10			58 800	APR 30			1 720 000		8 550	17 500	14.8
1981	CCCCCC------	MANUAL	795	APR 26			3	FEB 12			81 800	MAY 27			1 580 000		---	---	---
1982	CCCCCCCC----	MANUAL	907	SEP 10			4	MAR 17			147 000	SEP 10			4 260 000		27 800	18 600	13.7
1983	----CCCCC---	MANUAL	663	JUN 1			15	SEP 24			63 600	JUN 1			1 100 000		7 220	17 500	14.6
1984	P--CCCCCP---	MANUAL	627	JUN 15			6	JAN 26			76 700	JUN 15			2 000 000		---	---	---
1985	----CCCCC---	MANUAL	698	MAY 20			20	SEP 12			112 000	MAY 26			2 240 000		14 600	17 200	13.5
1986	---PCCCCC---	MANUAL	1 910	MAY 29	*		21	SEP 24			282 000	MAY 29	*		3 120 000		20 400	17 500	12.2
1989	------PP----	MANUAL	418	AUG 21			144	JUL 4			---	---			---		---	---	---
1990	----PP---P--	MANUAL	332	JUN 3			18	OCT 17			---	---			---		---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

FRASER RIVER AT HOPE - STATION NO. 08MF005

LOCATION: LAT 49 22 50 N LONG 121 27 05 W
DRAINAGE AREA: 217 000 km²
TYPE OF FLOW: REGULATED SINCE 1952
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)				SAMPLED CONCENTRATION MINIMUM (MG/L)				SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)				SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)		SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	HISTORICAL STANDARD ERROR OF MEAN %
1965	----PCCCCCCC	MANUAL	835	OCT 25			5	DEC 24			521 000	JUN 2			13 400 000		---	---	---
1966	CCCCCCCCCCCC	MANUAL	1 550	MAY 10			3	JAN 22			825 000	MAY 11	*		19 700 000		54 100	54 100	---
1967	CCCCCCCCCCCC	MANUAL	3 150	OCT 31	*		1	JAN 16	*		531 000	JUN 5			23 400 000		64 200	59 200	8.5
1968	CCCCCCCCCCCC	MANUAL	3 110	APR 29			6	DEC 22			732 000	MAY 24			23 600 000		64 600	61 000	5.6
1969	CCCCCCCCCCCC	MANUAL	745	APR 15			5	JAN 8			270 000	MAY 29			13 200 000		36 100	54 700	12.2
1970	CCCCCCCCCCCC	MANUAL	1 050	MAY 19			7	JAN 17			626 000	JUN 8			12 000 000		32 900	50 400	13.4
1971	CCCCCCCCCCCC	MANUAL	1 240	APR 27			2	DEC 29			507 000	MAY 16			16 300 000		44 700	49 400	11.3
1972	CCCCCCCCCCCC	MANUAL	1 750	MAR 23			3	JAN 1			746 000	MAY 17			29 100 000	*	79 400	53 700	11.9
1973	CCCCCCCCCCCC	MANUAL	1 350	MAY 19			5	FEB 12			687 000	MAY 20			16 200 000		44 200	52 500	10.8
1974	CCCCCCCCCCCC	MANUAL	1 230	APR 29			2	JAN 5			524 000	MAY 1			23 200 000		63 600	53 800	9.6
1975	CCCCCCCCCCCC	MANUAL	927	MAY 10			5	JAN 30			312 000	MAY 14			12 000 000		33 000	51 700	9.8
1976	CCCCCCCCCCCC	MANUAL	1 130	MAY 7			7	JAN 18			802 000	MAY 13			27 600 000		75 500	53 900	9.4
1977	CCCCCCCCCCCC	MANUAL	1 140	APR 29			5	DEC 22			472 000	APR 29			12 400 000		34 000	52 200	9.4
1978	CCCCCCCCCCCC	MANUAL	519	MAY 23			3	DEC 23			241 000	JUN 8			8 990 000		24 600	50 100	9.9
1979	CCCCCCCCCCCC	MANUAL	863	MAY 29			5	JAN 1			519 000	MAY 30			15 500 000		42 600	49 500	9.4

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

BRITISH COLUMBIA

FRASER RIVER AT MISSION - STATION NO. 08MH024

SUSPENDED SEDIMENT FOR 1990

LOCATION: LAT 49 07 39 N LONG 122 18 08 W
DRAINAGE AREA: 228 000 km²
TYPE OF FLOW: REGULATED SINCE 1952
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 26 300 000 TONNES FOR THE PERIOD JAN 01 TO DEC 31

	JAN			FEB			MAR		
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)
1	2 400	24	4 980	1 200 E	10	1 040	1 390	13	1 560
2	2 270	24	4 710	1 190 E	10	1 030	1 430	13	1 610
3	2 030	23	4 030	1 250 E	16	1 730	1 460	14	1 770
4	1 860	23	3 700	1 310	24	2 720	1 390	13	1 560
5	1 720	22	3 270	1 300	29	3 260	1 320	11	1 250
6	1 960	22	3 730	1 370	34	4 020	1 300	10 S	1 120
7	1 930	21	3 500	1 370	42	4 970	1 270	10	1 100
8	2 030	20	3 510	1 480	56	7 160	1 330	12	1 380
9	1 980	20	3 420	1 500 E	79	10 200	1 310	13	1 470
10	2 120	19	3 480	2 280 E	101	19 900	1 400	13	1 570
11	1 940	18	3 020	2 690 E	97	22 500	1 430	13	1 610
12	1 790	17	2 630	2 060 E	74 S	13 200	1 370	13	1 540
13	1 740 E	16	2 410	1 820 E	59	9 280	1 330	16	1 840
14	1 670 E	15	2 160	1 620 E	48	6 720	1 280	20	2 210
15	1 660	15	2 150	1 520	41	5 380	1 290	24	2 670
16	1 700	13	1 910	1 460	37	4 670	1 360	29	3 410
17	1 620	13	1 820	1 330	34	3 910	1 350	35	4 080
18	1 520	12	1 580	1 500 B	30	3 890	1 420	40	4 910
19	1 430	11	1 360	1 270 B	28	3 070	1 460	46	5 800
20	1 400	10	1 210	1 210 B	26	2 720	1 500	48 S	6 220
21	1 350	10	1 170	1 300	26	2 920	1 560	44	5 930
22	1 440 E	9	1 120	1 350	26	3 030	1 530	37	4 890
23	1 460 E	8 S	1 010	1 390	26	3 120	1 500	32	4 150
24	1 480 E	8	1 020	1 440	24	2 990	1 440	27	3 360
25	1 570 E	8	1 090	1 380	21	2 500	1 430	23	2 840
26	1 480 E	8	1 020	1 500	18	2 330	1 470	20	2 540
27	1 440 E	14	1 740	1 450	15	1 880	1 480	15	1 920
28	1 480 E	20	2 560	1 450	14	1 750	1 380	11	1 310
29	1 510	18	2 350				1 470	8	1 020
30	1 440	13	1 620				1 450	5	626
31	1 320 E	10	1 140				1 530	4	529
TOTAL	52 740		74 420	41 990		151 890	43 630		77 795

DAY	APR			MAY			JUN		
	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)
1	1 640	16 S	2 270	4 720	201	82 000	7 840	412	279 000
2	1 740	103	15 500	4 380	163 S	61 700	8 110	450 S	315 000
3	1 850	239 S	38 200	4 210	144	52 400	8 570	549 S	407 000
4	1 920	244	40 500	4 220	139 S	50 700	9 680	734 S	614 000
5	1 970	219	37 300	4 420	142 S	54 200	10 100	739 S	645 000
6	2 110	269	49 000	4 830	155 S	64 700	9 770	596 S	503 000
7	2 310	234 S	46 700	5 010	178 S	77 000	9 350	460	372 000
8	2 420	171	35 800	5 250	207 S	93 900	8 920	350 S	270 000
9	2 520	107 S	23 300	5 270	268 S	131 000	8 420	294	214 000
10	2 500	77	16 600	5 860	281 S	142 000	8 260	279	199 000
11	2 510	86	18 700	5 750	246 S	122 000	8 210	277 S	196 000
12	2 610	101 S	22 800	5 560	211	101 000	8 200	275 S	195 000
13	2 580	93	20 700	5 380	178 S	82 700	8 330	269 S	208 000
14	2 540	87	19 100	5 310	155 S	71 100	9 090	437 S	343 000
15	2 610	95	21 400	5 240	136 S	61 600	10 200	891 S	778 000
16	2 770	109 S	26 100	5 110	118 S	52 100	10 800	1 170	1 090 000
17	3 000	135	35 000	4 970	103 S	44 200	10 800	942 S	879 000
18	3 210	168 S	46 600	4 910	92 S	39 000	10 200	533 S	470 000
19	3 380	189	55 200	4 920	87	37 000	9 680	421 S	352 000
20	3 590	212 S	65 800	5 020	85	36 900	9 460	370 S	302 000
21	3 820	270	89 100	5 240	86	38 900	9 280	327 S	262 000
22	4 110	362	129 000	5 380	94 S	43 700	9 310	291 S	234 000
23	4 500	464 S	180 000	5 540	104 S	49 800	9 420	260 S	212 000
24	4 970	550	236 000	5 660	117 S	57 200	9 540	240	198 000
25	5 240	603	273 000	5 810	133 S	66 800	9 550	238 S	196 000
26	5 550	570	273 000	5 880	155 S	78 700	9 630	255 S	212 000
27	5 720	487 S	241 000	6 020	196	102 000	9 750	270 S	227 000
28	5 720	408	202 000	6 370	261 S	144 000	9 580	270 S	223 000
29	5 500	334	159 000	6 900	329	194 000	9 220	260 S	207 000
30	5 120	262 S	116 000	7 230	370 S	231 000	8 860	253	194 000
31				7 510	392 S	254 000			
TOTAL	100 030		2 534 670	168 280		2 717 300	278 030		10 796 000

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

FRASER RIVER AT MISSION - STATION NO. 08MH024

SUSPENDED SEDIMENT FOR 1990

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	8 530	243	179 000	4 890 E	89	37 600	2 490	34	7 310	1
2	8 310	217 S	156 000	4 750 E	87	35 700	2 430	36	7 560	2
3	8 190	200 S	142 000	4 680	86	34 800	2 470	36 S	7 680	3
4	8 040	189 S	131 000	4 610	86	34 300	2 480	33	7 070	4
5	7 950	188	129 000	4 520	85	33 200	2 470	26	5 550	5
6	7 890	191	130 000	4 420	82	31 300	2 470	22 S	4 690	6
7	7 920	190 S	130 000	4 240	77	28 200	2 360	21	4 280	7
8	7 860	189	128 000	4 080	74 S	26 100	2 310	20	3 990	8
9	7 750	198	133 000	3 940	74	25 200	2 250	19 S	3 690	9
10	7 740	210	140 000	3 900	73	24 600	2 200	18	3 420	10
11	7 720	216	144 000	3 890	73	24 500	2 180	19	3 580	11
12	7 670	216 S	143 000	3 820	71	23 400	2 140	18 S	3 330	12
13	7 650	204 S	135 000	3 750	69	22 400	2 040	18	3 170	13
14	7 580	195 S	128 000	3 710	67	21 500	2 090	19	3 430	14
15	7 480	190 S	123 000	3 730	65	20 900	2 060	19	3 380	15
16	7 500	180 S	117 000	3 770	64	20 800	2 060	20 S	3 560	16
17	7 470	170 S	110 000	3 810	64	21 100	2 150	19	3 530	17
18	7 190	163 S	101 000	3 830	65	21 500	2 080	16	2 880	18
19	6 790	156 S	91 500	3 720	65	20 900	2 090	15	2 710	19
20	6 260 E	153 S	82 800	3 620	63	19 700	2 050	14 S	2 480	20
21	6 020 E	153	79 600	3 510	62	18 800	2 010	14	2 430	21
22	5 760 E	155	77 100	3 400	62 S	18 200	2 020	14	2 440	22
23	5 500 E	148 S	70 300	3 290	61	17 300	1 980	13 S	2 220	23
24	5 330 E	137 S	63 100	3 160	56	15 300	1 930	13	2 170	24
25	5 180 E	120 S	53 700	3 100	48	12 900	1 840	14	2 230	25
26	5 110 E	111	49 000	3 050	39	10 300	1 790	14	2 170	26
27	5 140 E	108	48 000	2 950	33 S	8 410	1 770	14	2 140	27
28	5 130 E	100 S	44 300	2 820	32	7 800	1 800	14	2 180	28
29	5 080 E	95 S	41 700	2 670	32	7 380	1 780	14	2 150	29
30	5 050 E	92 S	40 100	2 550	32	7 050	1 780	15	2 310	30
31	4 990 E	91 S	39 200	2 580	33	7 360				31
TOTAL	211 780		3 179 400	114 760		658 500	63 570		109 730	

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	1 800	15 S	2 330	2 630	61 S	13 900	2 520	29	6 310	1
2	1 740	15	2 260	2 470	105	22 400	2 440	25	5 270	2
3	1 720	18	2 670	2 390	158 S	32 600	2 080	24	4 310	3
4	2 860	159 S	39 300	2 320	206	41 300	2 690	27	6 280	4
5	3 020	328 S	85 600	2 270	259	50 800	2 940	25	6 350	5
6	2 290	192	38 000	2 130	324 S	59 600	2 670	23	5 310	6
7	2 080	54 S	9 700	2 010	482	83 700	2 480	22	4 710	7
8	1 990	22	3 780	1 960	751	127 000	2 360	24	4 890	8
9	1 890	16 S	2 610	1 890	1 080	170 000	2 320	23	5 010	9
10	2 020	21	3 670	5 360	1 420 S	658 000	2 570	20	4 440	10
11	1 950	23 S	3 880	6 040	1 240 S	647 000	2 460	19	4 040	11
12	1 930	30	5 000	5 110	471 S	208 000	2 270	18	3 530	12
13	2 330	36	7 250	5 330	416	192 000	2 160	20	3 730	13
14	2 240	11 S	2 130	5 510	379 S	180 000	2 010	19	3 300	14
15	2 070	10	1 790	4 580	314	124 000	1 970	19	3 230	15
16	1 990	11	1 890	4 070	387	136 000	1 910	18	2 970	16
17	1 870	11	1 780	4 100	756	268 000	1 780	18	2 770	17
18	1 890	11	1 800	4 150	847 S	304 000	1 900	18	2 950	18
19	1 870	32	5 170	3 850	758	252 000	1 650	17	2 420	19
20	1 710	81	12 000	3 530	748	228 000	1 510 B	17	2 220	20
21	1 670	153 S	22 100	3 200	755 S	209 000	1 370 B	17	2 010	21
22	1 720	176	26 200	3 120	821	221 000	1 310 B	17	1 920	22
23	1 620	196	27 400	4 110	1 040	369 000	1 250 B	17	1 840	23
24	1 590	247 S	33 900	6 090	888 S	467 000	1 190 B	17	1 750	24
25	1 640	276	39 100	4 760	314	129 000	1 180 B	16	1 630	25
26	2 600	250	56 200	3 780	130 S	42 500	1 190 B	16	1 650	26
27	2 230	155	29 900	3 240	80	22 400	1 160 B	15	1 500	27
28	2 410	83 S	17 300	2 870	53 S	13 100	1 090 B	15	1 410	28
29	2 470	50 S	10 700	2 720	38	8 930	1 050 B	15	1 360	29
30	2 690	67	15 600	2 740	33	7 810	1 030 B	15	1 330	30
31	2 710	66 S	15 500				1 070 B	15	1 390	31
TOTAL	64 610		526 510	109 330		5 388 040	57 780		101 830	

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

BRITISH COLUMBIA

FRASER RIVER AT MISSION - STATION NO. 08MH024

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL		(m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 23	15:31	3.0	1460	Y	274		P63	8	82														
FEB 12	17:10	3.0	2060	Y	274		P63	69	90														
MAR 06	09:13	5.0	1890		274		P63	9	94														
MAR 20	11:54	6.5	1600		274		P63	42	93														
MAR 20	13:50	6.5	275	E	91.4	M	P61	47	121														
MAR 20	13:59	6.5	439	E	183	M	P61	61	101														
MAR 20	14:05	6.5	411	E	274	M	P61	48	89														
MAR 20	14:13	6.5	388	E	366	M	P61	44	94														
MAR 20	14:26	6.5	251	E	457	M	P61	38	93														
MAR 20	14:49	6.5	1620		274		P63	47	95														
APR 01	11:07		1540		274		P63	8	166														
APR 03	10:24	7.0	2080		274		P63	245	113	24	36	57	84	94	99	100				1	63	36
APR 07	11:21	8.0	2790		274		P63	246	89	23	33	53	75	88	96	99	100				4	63	33
APR 09	14:01	8.0	2950		274		P63	108	105														
APR 12	17:03	8.0	2850		274		P63	107															
APR 16	20:32	8.0	2800		274		P63	125	95														
APR 18	17:02	10.0	3480		274		P63	199															
APR 20	20:32	10.0	3860		274		P63	248	68	10	15	26	42	59	76	89	96	100			24	61	15
APR 23	15:29	9.0	4680		274		P63	559	89	10	17	28	44	58	77	93	100				23	60	17
APR 27	13:47	8.0	5920		274		P63	583	85	10	14	24	37	51	67	81	89	94	100		33	53	14
APR 30	19:42	10.0	5220		274		P63	220	85														
MAY 02	08:37	10.0	4530		274		P63	250	78														
MAY 04	14:53	9.0	4210		274		P63	241															
MAY 05	17:32	10.0	4310		274		P63	168															
MAY 06	17:27	10.5	4820		274		P63	202															
MAY 07	17:53	10.0	4960		274		P63	239	78	12	15	22	33	41	53	68	81	93	100		47	38	15
MAY 08	19:22	12.0	5150		274		P63	234															
MAY 09	07:07	10.0	5450		274		P63	332	82	07	10	19	27	38	50	62	75	92	100		50	40	10
MAY 09	13:31	9.5	907		91.4	M	P63	302	76	06	10	20	32	45	65	91	100				35	55	10
MAY 09	13:42	9.5	1440		183	M	P63	300	73	08	13	22	32	44	62	84	97	100			38	49	13
MAY 09	13:51	9.5	1750		274	M	P63	298	78	04	10	19	31	46	63	81	96	100			37	53	10
MAY 09	13:56	9.5	1860		366	M	P63	232	81	01	04	23	31	53	72	89	97	100			28	68	4
MAY 09	14:01	9.5	794		457	M	P63	205	72	06	08	23	40	60	82	98	100				18	74	8
MAY 09	14:20	9.5	5920		274		P63	359	77	06	10	17	27	38	52	72	85	93	100		48	42	10
MAY 10	17:23	12.0	5990		274		P63	356															
MAY 11	16:53	10.5	5920		274		P63	314	89	08	13	22	33	44	56	69	82	94	100		44	43	13
MAY 13	20:52	10.5	5270		274		P63	222															
MAY 14	17:57	10.0	5550		274		P63	201															
MAY 15	19:23	11.0	5430		274		P63	174	65														
MAY 16	18:52	10.5	5280		274		P63	149	F 64														
MAY 17	17:42	11.5	5120		274		P63	143	82	07	10	18	28	44	54	61	84	97	100		46	44	10
MAY 18	19:52	12.0	5060		274		P63	120															
MAY 22	18:02	13.0	5180		274		P63	137															
MAY 23	21:27	13.0	5380		274		P63	135															
MAY 24	13:00	12.0	5920		274		P63	193															
MAY 25	20:14	12.0	5530		274		P63	196	82	07	11	19	32	44	57	76	86	93	100		43	46	11
MAY 28	18:51	13.5	6050		274		P63	193															
MAY 28	19:53	13.5	6520		274		P63	297	74	02	05	13	21	34	52	72	90	98	100		48	47	5
MAY 30	11:31	11.5	7240		274		P63	393	76	05	07	13	22	32	50	70	84	94	100		50	43	7
MAY 30	12:23	11.5	1220		91.4	M	P63	448	81	05	10	17	28	40	52	90	100				48	42	10
MAY 30	12:27	11.5	1790		183	M	P63	419	73	07	11	20	28	38	54	76	92	98	100		46	43	11
MAY 30	12:32	11.5	1660		274	M	P63	378	78	10	13	20	30	42	62	82	94	99	100		38	49	13
MAY 30	12:36	11.5	1680		366	M	P63	328	77	08	14	22	34	48	67	89	99	100			33	53	14
MAY 30	12:41	11.5	1190		457	M	P63	275	80	09	16	26	40	57	79	97	100				21	63	16
MAY 30	12:57	11.5	7290		274		P63	469	80	06	08	15	23	33	49	71	90	98	100		51	41	8
MAY 30	17:42	11.0	7420		274		P63	441	85	06	11	17	27	38	53	75	86	95	100		47	42	11
MAY 31	20:02	11.0	7740		274		P63	490	83	05	10	16	25	36	54	74	89	97	100		46	44	10
JUN 02	10:33	13.0	8190		274		P63	626	80	04	09	14	22	34	51	71	83	93	100		49	42	9
JUN 03	17:43	12.0	8670		274		P63	775	63	05	09	16	26	40	53	70	84	97	100		47	44	9
JUN 04	10:52	11.0	9790		274		P63	924	75	03	08	16	25	35	49	66	79	91	100		51	41	8
JUN 04	11:36	13.5	9820		274		P63	1002	90	07	10	17	27	36	49	68	83	93	100		51	39	10
JUN 04	12:11	13.5	1660		91.4	M	P63	713	88	08	14	24	36	49	69	86	97	100			31	55	14
JUN 04	12:26	13.5	2600		183	M	P63	814	97	09	13	22	33	45	58	71	83	92	100		42	45	13
JUN 04	12:45	13.5	2230		274	M	P63	854	98	10	13	22	32	45	61	77	87	96	100		39	48	13
JUN 04	12:50	13.5	2120		366	M	P63	692	97	10	17	27	38	48	54	65	79	95	100		46	37	17
JUN 04	12:55	13.5	1990		457	M	P63	586	82	12	18	30	44	62	82	97	100				18	64	18
JUN 04	13:10	13.5	9830		274		P63	1034	87	07	10	17	26	37	50	66	81	92	100		50	40	10
JUN 04	19:42	12.0	9790		274		P63	950															
JUN 05	11:17	11.5	10300		274		P63	931	79	07	12	19	27	36	45	56	80	97	100		55	33	12
JUN 06	17:02	11.0	9570		274		P63	655	79	11	15	22	30	40	52	64	86	98	100		48	37	15
JUN 08	15:46	12.0	8970		274		P63	434	72	07	12	19	26	31	39	57	74	87	100		61	27	12
JUN 11	10:13	12.0	8270		274		P63	379	75	04	07	13	21	28	36	49	70	94	100		64	29	7
JUN 12	20:17	12.0	8230		274		P63	357	F														
JUN 13	18:02	11.0	8450		274		P63	397															
JUN 14	17:02	11.0	9380		274		P63	642	72	06	12	19	27	36	44	54	68	86	100		56	32	12
JUN 15	18:12	11.0	10500		274		P63	1369	80	05	09	15	22	30	39	46	54	64	100		61	30	9
JUN 17	16:02		10700		274		P63	1060	97	09	14	21	29	37	43	52	63	77	100		57	29	14
JUN 18	20:17		9990		274		P63	578	87	04	07	13	19	23	29	36	58	89	100		71	22	7
JUN 19	16:57		9530		274		P63	516															
JUN 20	17:10		9360		274		P63	498	76	07	12	16	21	26	31	37	69	95	100		69	19	12
JUN 21	15:53		9340		274		P63	566	78	05	07	13	19	23	31	55	83	98	100		69	24	7
JUN 22	21:37		9010		274		P63	362															
JUN 23	21:31		9170		274		P63	329	66	06	10	17	25	32	39	48	68	92	100		61	29	10
JUN 25	20:43		9550		274		P63	352															
JUN 26	15:44		9790		274		P63	272															
JUN 27	21:26		9700		274		P63	382															
JUN 28	20:52		9550		274		P63	372	77	05	11	18	24	31	38	46	65	91	100		62	27	11
JUN 29	07:24	13.5	9510		274		P63	330	50	08	12	19	29	37	42	54	71	92	100		58	30	12
JUL 02	19:12	14.5	8240		274		P63	284	56	09	13	21	33	44	48	52	76	96	100		52	35	13
JUL 03	07:56	14.0	8310		274		P63	219	72														
JUL 04	21:35	14.0	7970		274		P63	231	53	06	11	19	28	37	46	60	81	97	100		54	35	11
JUL 07	18:02	16.0	7990		274		P63	237															
JUL 12	10:31	17.0	1340		91.4	M	P63	207	70	21	25	37	49	61	78	86	93	97	100		22	53	25
JUL 12	10:35	17.0	1800		183	M	P63	264	76	10	16	26	38	46	56	68	82	93	100		44	40	16
JUL 12	10:38	17.0	1810		274	M	P63	244	79	13	16	27	39	50	62	75	86	97	100		38	46	16
JUL 12	10:42	17.0	1770		366	M	P63	187	65	14	19	32	47	63	77	87	94	98	100		23	58	19
JUL 12	10:48	17.0	1250		457	M	P63	153	65	23	30	42	59	73	87	94	97	99	100		13	57	30
JUL 12	11:09	17.0	7660		274		P63	264	69	11	17	26	37	48	60	79	87	95	100		40	43	17
JUL 12	18:02	18.0	7770		274		P63	253	60	12	18	25	34	49	60	75	87	96	100		40	42	18
JUL 13	16:42	18.0	7730		274		P63	211	55	09	15	24	37	52	63	79	88	96	100		37	48	15
JUL 14	20:02	18.5	7620		274		P63	311															
JUL 15	21:42	18.5	7420		274		P63	215															
JUL 16	09:47	19.0	7590		274		P63	219															
JUL 17	17:22	17.5	7420		274		P63	183	51	07	10	20	38	48	59	73	88	98	100		41	49	10
JUL 18	20:17	18.0	6970		274		P63	197															
JUL 19	20:50	18.5	6490		274		P63	164	48	09	14	27	44	58	71	83	96	100			29	57	14
JUL 20	21:22	19.0	6260	Y	274		P63	207	50														
JUL 23	21:12	18.0	5500	Y	274		P63	154															
JUL 24	20:26	17.5	5330	Y	274		P63	144	65														

CONTINUED

FRASER RIVER AT MISSION - STATION NO. 08MH024 (CONTINUED)

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JUL 25	17:22	17.0	5180	Y 274		P63	126															
JUL 28	07:07	18.5	5130	Y 274		P63	107															
JUL 29	06:47	19.0	5080	Y 274		P63	90															
JUL 30	21:02	19.0	5050	Y 274		P63	92															
JUL 31	22:02	19.0	4990	Y 274		P63	101															
AUG 08	09:52	18.5	4030	274		P63	73															
AUG 22	12:50	20.0	3570	274		P63	69	59														
AUG 22	13:40	20.0	415	91.4	M	P63	68	66														
AUG 22	13:46	20.0	949	183	M	P63	68	62														
AUG 22	13:51	20.0	848	274	M	P63	63	61														
AUG 22	13:55	20.0	841	366	M	P63	57	62														
AUG 22	14:01	20.0	459	457	M	P63	50	62														
AUG 22	14:15	20.0	3590	274		P63	70 C	55														
AUG 27	19:02	18.0	2950	274		P63	32															
SEP 03	19:02	18.0	1620	274		P63	35	61														
SEP 06	08:46	17.0	2270	274		P63	28	62														
SEP 06	09:32	18.0	2540	274		P63	16															
SEP 09	15:42	18.0	2500	274		P63	18															
SEP 12	14:02	17.0	1180	274		P63	18															
SEP 16	18:02	18.5	711	274		P63	20	63														
SEP 20	08:32	18.0	1460	274		P63	14															
SEP 23	12:35	18.0	2090	274		P63	14															
OCT 01	07:42	16.5	2120	274		P63	15	66														
OCT 04	16:32	15.5	3230	274		P63	221															
OCT 05	16:42	15.5	2450	274		P63	329	47	11	16	29	48	72	89	96	99	100			11	73	16
OCT 07	17:32	15.5	1970	274		P63	39															
OCT 09	13:03	11.5	1620	274		P63	12	63														
OCT 11	18:53	15.0	2350	274		P63	23	76														
OCT 14	08:33	11.0	2490	274		P63	9															
OCT 21	13:02	7.0	2250	274		P63	159															
OCT 24	12:12	5.0	700	274		P63	251	72														
OCT 28	15:17	4.0	1710	274		P63	154															
OCT 29	13:02	8.5	2020	274		P63	47	60														
OCT 31	08:03	4.0	2790	274		P63	71															
NOV 01	12:51	8.0	2790	274		P63	55	67														
NOV 03	14:27	2.0	2560	274		P63	166															
NOV 06	10:02	2.0	600	274		P63	314	73	01	02	07	18	42	87	100					13	85	2
NOV 10	10:53	2.0	5240	274		P63	1416	64	19	26	40	56	73	91	99	100				9	65	26
NOV 11	17:32	2.0	5840	274		P63	1134	85	21	30	44	60	74	90	98	100				10	60	30
NOV 13	15:37	2.0	4660	274		P63	382	56	18	24	33	49	66	82	95	99	100			18	58	24
NOV 14	15:12		5260	274		P63	326	56	16	23	40	49	62	75	86	94	98	100		25	52	23
NOV 14	17:23	2.0	5080	274		P63	337	54	14	22	32	41	48	55	71	84	95	100		45	33	22
NOV 18	10:03	3.0	3920	274		P63	844	79	02	04	07	14	30	52	67	77	88	100		48	48	4
NOV 21	10:48	2.0	2430	274		P63	756	78	05	06	10	23	50	93	100					7	87	6
NOV 24	17:03	2.0	6110	274		P63	705	47	04	04	08	15	23	56	93	100				44	52	4
NOV 26	12:38	6.0	3300	274		P63	140	56	14	22	37	47	57	72	87	96	99	100		28	50	22
NOV 26	13:09	6.0	530	91.4	M	P61	161	49														
NOV 26	13:18	6.0	808	183	M	P61	136	41														
NOV 26	13:26	6.0	869	274	M	P61	121	35														
NOV 26	13:32	6.0	660	366	M	P61	84	20														
NOV 26	13:43	6.0	363	457	M	P61	57	22														
NOV 26	13:59	6.0	3180	274		P63	140	64	19	26	40	57	68	80	94	99	100			20	54	26
NOV 28	15:18	2.5	2190	274		P63	353	27														

NOTE: SINGLE VERTICAL IS LOCATED AT 274 METRES FOR 1990

DISCHARGE SYMBOL(S): E - ESTIMATED Y - DAILY MEAN; ESTIMATED
CONCENTRATION SYMBOL(S): C - COARSE MATERIAL PRESENT F - SAMPLE BOTTLE OVER FILLED
VERTICAL SYMBOL(S): M - A SEDIMENT MEASUREMENT VERTICAL

FRASER RIVER AT MISSION - STATION NO. 08MH024

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1965	-----CCCCCCC	MANUAL	735	JUN 2	7	DEC 23	543 000	JUN 2	12 600 000	---	---	---
1966	CCCCCCCCCCCC	MANUAL	910	MAY 10	5	JAN 29	503 000	MAY 11	19 300 000	52 800	52 800	---
1967	CCCCCCCCCCCC	MANUAL	790	MAY 11	4	FEB 12	534 000	JUN 5	26 100 000	71 400	62 100	15.0
1968	CCCCCCCCCCCC	MANUAL	914	MAY 24	5	JAN 12	575 000	MAY 25	20 900 000	54 200	60 500	9.3
1969	CCCCCCCCCCC	MANUAL	670	APR 17	7	JAN 26	287 000	MAY 29	13 900 000	38 200	54 900	12.5
1970	CCCCCCCCCCC	MANUAL	780	MAY 19	2	DEC 29	520 000	JUN 8	11 500 000	31 500	50 200	14.1
1971	CCCCCCCCCCCC	MANUAL	752	MAY 17	2	JAN 2	420 000	MAY 17	17 500 000	48 000	49 900	11.6
1972	CCCCCCCCCCCC	MANUAL	1 060	JUN 3	3	FEB 26	769 000	JUN 4	31 000 000 *	84 600	54 800	12.7
1973	CCCCCCCCCCCC	MANUAL	753	MAY 19	4	JAN 29	365 000	JUN 29	12 200 000 *	33 500	52 100	12.6
1974	CCCCCCCCCCC	MANUAL	1 090	JUN 19	8	JAN 10	724 000	JUN 19	24 900 000	68 300	53 900	11.3
1975	CCCCCCCCCCCC	MANUAL	463	MAY 15	4	JAN 10	237 000	MAY 15	12 000 000	32 800	51 800	11.3
1976	CCCCCCCCCCCC	MANUAL	858	MAY 8	6	JAN 8	567 000	MAY 14	24 900 000	68 000	53 300	10.3
1977	CCCCCCCCCCCC	MANUAL	799	APR 30	5	JAN 1	378 000	APR 30	14 500 000	39 800	52 200	9.8
1978	CCCCCCCCCCCC	MANUAL	450	JUN 10	5	NOV 20	301 000	JUN 10	12 300 000	33 700	50 800	9.7
1979	CCCCCCCCCCCC	MANUAL	1 240	MAY 6	6	JAN 1	573 000	MAY 6	15 000 000	41 100	50 100	9.2
1980	CCCCCCCCCCCC	MANUAL	1 410	DEC 27	4	DEC 8	956 000	DEC 27	10 900 000	29 800	48 700	9.2
1981	CCCCCCCCCCCC	MANUAL	758	MAY 26	7	DEC 30	411 000	MAY 30	12 400 000	33 900	47 800	9.0
1982	CCCCCCCCCCCC	MANUAL	930	MAY 21	2	NOV 10	552 000	JUL 20	25 600 000	70 000	49 100	8.7
1983	CCCCCCCCCCCC	MANUAL	472	JUN 3	1	JAN 26 *	240 000	JUN 3	8 090 000	22 200	47 600	9.0
1984	CCCCCCCCCCCC	MANUAL	1 120	JAN 4	7	FEB 3	383 000	JUN 16	12 300 000	33 700	46 900	8.8
1985	CCCCCCCCCCCC	MANUAL	999	MAY 23	1	OCT 22	592 000	JUN 7	15 600 000	42 700	46 700	8.4
1986	CCCCCCCCCCCC	MANUAL	1 350	JUN 1	5	DEC 24	1 150 000	JUN 1 *	17 300 000	47 400	46 700	8.0
1987	CCCCCCCCCCCC	MANUAL	771	MAY 5	4	JAN 4	391 000	JUN 17	9 970 000	27 300	45 800	8.0
1988	CCCCCCCCCCCC	MANUAL	825	MAY 18	1	OCT 10	417 000	MAY 17	10 500 000	28 700	45 100	7.9
1989	CCCCCCCCCCCC	MANUAL	394	MAY 11	2	JAN 16	188 000	MAY 13	8 920 000	24 400	44 200	8.0
1990	CCCCCCCCCCCC	MANUAL	1 420	NOV 10 *	4	MAR 31	1 090 000	JUN 16	26 300 000	72 100	45 300	7.9

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH * - EXTREME FOR PERIOD OF RECORD

FRASER RIVER AT PORT MANN PUMPING STATION - STATION NO. 08MH126

LOCATION: LAT 49 13 04 N LONG 122 49 37 W
DRAINAGE AREA: 232 000 km²
TYPE OF FLOW: REGULATED SINCE 1952
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1965	-----CCCCCCC	MANUAL	470 OCT 27	8 DEC 25	293 000 JUN 17	11 000 000	---	---	---
1966	CCCCCCCCCCCC	MANUAL	765 MAY 11	10 JAN 1	518 000 MAY 13	17 800 000	---	---	---
1967	CCCCCCCCCCCC	MANUAL	656 JUN 9	8 FEB 17	675 000 JUN 8 *	25 300 000 *	---	---	---
1968	CCCCCCCCCCCC	MANUAL	597 MAY 25	13 JAN 11	452 000 MAY 26	20 600 000	---	---	---
1969	CCCCCCCCCCCC	MANUAL	521 MAY 30	9 DEC 7	320 000 JUN 13	13 000 000	---	---	---
1970	CCCCCCCCCCCC	MANUAL	762 JUN 9	5 MAR 14 *	485 000 JUN 9	10 600 000	---	---	---
1971	CCCCCCCCCCCC	MANUAL	414 APR 30	7 DEC 11	258 000 MAY 17	14 700 000	---	---	---
1972	CCCCCCCCCCCC	MANUAL	972 MAY 18	8 DEC 14	550 000 MAY 18	25 200 000	---	---	---
1973	CCCCCCCCCCCC	MANUAL	545 JUN 29	10 DEC 29	--- ---	---	---	---	---
1974	CCCCCCCCCCCC	MANUAL	745 JUN 19	14 JAN 1	--- ---	---	---	---	---
1975	CCCCCCCCCCCC		341 JUN 6	10 DEC 15	--- ---	---	---	---	---
1976	CCCCCCCCCCCC		718 MAY 11	10 FEB 25	--- ---	---	---	---	---
1977	CCCCCCCCCCCC		477 MAY 1	13 NOV 6	--- ---	---	---	---	---
1978	-----P------	MANUAL	317 JUN 12	199 JUN 12	--- ---	---	---	---	---
1984	---PPPPPPPPP		774 AUG 14	20 MAY 14	--- ---	---	---	---	---
1985	PPPPPP------		2 300 MAY 29 *	27 JAN 17	--- ---	---	---	---	---
1987	----P-------	MANUAL	528 MAY 13	163 MAY 13	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

FRASER RIVER NEAR AGASSIZ - STATION NO. 08MF035

LOCATION: LAT 49 12 16 N LONG 121 46 35 W
DRAINAGE AREA: 218 000 km²
TYPE OF FLOW: REGULATED SINCE 1952
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1966	-----PCCCCCC	MANUAL	355 AUG 5	8 DEC 5	230 000 JUN 22	7 410 000	---	---	---
1967	CCCCCCCCCCCC	MANUAL	965 MAY 11	7 JAN 22	579 000 JUN 6	25 300 000	69 400	69 400	---
1968	CCCCCCCCCCCC	MANUAL	935 MAY 24	6 JAN 4	570 000 MAY 24	21 400 000	58 400	63 900	8.6
1969	CCCCCCCCCCCC	MANUAL	1 070 APR 16	10 DEC 27	283 000 APR 16	12 800 000	35 000	54 200	18.7
1970	CCCCCCCCCCCC	MANUAL	1 100 JUN 7	5 NOV 9	629 000 JUN 8	12 400 000	34 000	49 200	17.9
1971	CCCCCCCCCCCC	MANUAL	1 140 APR 27	5 MAR 9	456 000 MAY 16	18 000 000	49 400	49 200	13.8
1972	CCCCCCCCCCCC	MANUAL	1 190 MAY 16	7 JAN 19	823 000 MAY 17	28 000 000 *	76 600	53 800	13.4
1973	CCCCCCCCCCCC	MANUAL	1 110 MAY 20	5 FEB 13	474 000 MAY 20	13 800 000	37 900	51 500	12.6
1974	CCCCCCCCCCCC	MANUAL	1 040 MAY 4	4 JAN 10	639 000 JUN 20	24 100 000	66 100	53 300	11.1
1975	CCCCCCCCCCCC	MANUAL	876 MAY 14	2 OCT 31	366 000 MAY 14	11 200 000	30 800	50 800	11.4
1976	CCCCCCCCCCCC	MANUAL	1 160 MAY 27	4 JAN 18	707 000 MAY 7	25 800 000	70 500	52 800	10.5
1977	CCCCCCCCCCCC	MANUAL	931 APR 29	1 FEB 4 *	390 000 APR 29	12 700 000	34 900	51 200	10.3
1978	CCCCCCCCCCCC	MANUAL	593 JUN 9	5 JAN 17	358 000 JUN 9	10 700 000	29 200	49 300	10.4
1979	CCCCCCCCCCCC	MANUAL	1 030 MAY 4	4 NOV 12	404 000 JUN 1	14 700 000	40 300	48 600	9.8
1980	CCCCCCCCCCCC	MANUAL	733 MAY 3	4 JAN 7	320 000 MAY 3	9 500 000	25 900	47 000	10.0
1981	CCCCCCCCCCCC	MANUAL	805 APR 27	6 DEC 27	406 000 MAY 26	12 000 000	33 000	46 100	9.7
1982	CCCCCCCCCCCC	MANUAL	847 MAY 21	2 FEB 10	547 000 MAY 21	23 300 000	63 900	47 200	9.2
1983	CCCCCCCCCCCC	MANUAL	498 JUN 3	8 OCT 15	239 000 JUN 3	8 730 000	23 900	45 800	9.4
1984	CCCCCCCCCCCC	MANUAL	1 370 JAN 4 *	9 FEB 25	443 000 JUN 16	15 100 000	41 200	45 600	8.9
1985	CCCCCCCCCCCC	MANUAL	1 100 MAY 23	5 DEC 31	565 000 MAY 28	15 000 000	41 200	45 300	8.5
1986	CCCCCCCCCCCC	MANUAL	1 100 JUN 2	5 JAN 2	909 000 JUN 1 *	16 000 000	43 800	45 300	8.1
1987	PPP---------	MANUAL	110 MAR 10	7 JAN 9	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

FRASER RIVER NEAR MARGUERITE - STATION NO. 08MC018

LOCATION: LAT 52 31 48 N LONG 122 26 32 W
DRAINAGE AREA: 114 000 km²
TYPE OF FLOW: REGULATED SINCE 1952
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE VERTICAL SAMPLING (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	PERCENT SILT	PERCENT CLAY
APR 06	10:58	3.0	1200	H 160	P61	547	101	12	17	30	46	60	78	94	99	100			22	61	17
APR 27	12:12	7.0	3340	H 160	P61	435	79	08	11	21	33	42	54	70	85	96	100		46	43	11
JUN 03	14:10	11.0	5790	H 160	DIP	656	73	17	22	38	54	67	81	98	100				19	59	22
AUG 15	11:38	2.0	1690	H 160	P61	86	55														

NOTE: SINGLE VERTICAL IS LOCATED AT 155 METRES FOR 1990

DISCHARGE SYMBOL(S): H - DAILY MEAN

FRASER RIVER NEAR MARGUERITE - STATION NO. 08MC018

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)		SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	HISTORICAL STANDARD ERROR OF MEAN %
1971	----CCCCCCCC	MANUAL	1 170	MAY 15	7	DEC 3	444 000	MAY 15	8 920 000		---	---	---
1972	--PCCCCCCC-	MANUAL	1 170	MAY 15	13	NOV 18	498 000	MAY 16	14 900 000		---	---	---
1973	--CCCCCCCCC	MANUAL	1 280	MAY 17	5	DEC 28	330 000	MAY 18	9 840 000		---	---	---
1974	CCCCCCCCCCCC	MANUAL	1 230	APR 29	5	DEC 16	432 000	MAY 2	14 500 000		39 600	39 600	---
1975	CCCCCCCCCCCC	MANUAL	1 160	APR 18	5	JAN 9	241 000	MAY 13	7 290 000	*	20 000	29 800	32.9
1976	CCCCCCCCCCCC	MANUAL	1 820	MAY 5	4	JAN 8	744 000	MAY 5	20 400 000	*	55 600	38 400	26.9
1977	CCCCCCCCCCCC	MANUAL	893	JUN 11	1	DEC 20 *	332 000	JUN 11	9 500 000		26 000	35 300	22.4
1978	CCCCCCCCCCCC	MANUAL	1 330	MAR 30	1	JAN 1	244 000	JUN 7	5 580 000		15 300	31 300	23.4
1979	CCCCCCCCCCCC	MANUAL	1 500	MAY 6	3	JAN 19	465 000	MAY 28	10 800 000		29 500	31 000	19.3
1980	CCCCCCCCCCCC	MANUAL	955	APR 16	7	JAN 2	222 000	MAY 1	5 110 000		14 000	28 600	19.7
1981	CCCCCCCCCCCC	MANUAL	1 190	MAY 28	4	OCT 23	384 000	MAY 30	8 070 000		22 100	27 800	17.8
1982	CCCCCCCCCCCC	MANUAL	1 460	MAY 19	2	JAN 21	427 000	SEP 11	13 900 000		38 100	28 900	15.6
1983	CCCCCCCCCCCC	MANUAL	875	JUN 1	3	DEC 25	188 000	JUN 2	5 290 000		14 500	27 500	15.6
1984	CCCCCCCCCCCC	MANUAL	700	JUN 17	2	JAN 19	180 000	JUN 17	7 580 000		20 700	26 900	14.6
1985	CCCCCCCCCCCC	MANUAL	1 350	MAY 23	3	DEC 29	454 000	MAY 25	10 600 000		28 900	27 000	13.2
1986	CCCCCCCCCCCC	MANUAL	1 900	MAY 30 *	3	FEB 16	801 000	MAY 30 *	10 100 000		27 600	27 100	12.2
1989	P--P-P-P----	MANUAL	421	JUN 7	13	JAN 30	---	---	---		---	---	---
1990	---P-P-P----	MANUAL	656	JUN 3	86	AUG 15	---	---	---		---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

GENESEE CREEK AT THE MOUTH - STATION NO. 08FA009

LOCATION: LAT 51 39 30 N LONG 126 40 45 W
DRAINAGE AREA: 17.4 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	HISTORICAL STANDARD ERROR OF MEAN %
1968	-----PPPPP--	MANUAL	188	OCT 8 *	2	JUN 28 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

GRAVE CREEK AT THE MOUTH - STATION NO. 08NK019

LOCATION: LAT 49 50 36 N LONG 114 51 36 W
DRAINAGE AREA: 83.9 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1970	CCCCCCCCCCCC	MANUAL	803 MAY 26	4 FEB 9	318 MAY 26	3 310	9.07	9.07	---
1971	CCCCCCCCCCCC	MANUAL	2 020 MAY 11	4 OCT 14	1 340 MAY 11	14 900 *	40.9	25.0	63.7
1972	---CCCCCCCCC	MANUAL	3 140 MAY 13 *	1 AUG 14	1 570 MAY 17 *	13 500	---	---	---
1973	CCCCCCCCCCCC	MANUAL	113 JUN 9	1 JAN 17	52.9 MAY 16	761	2.08	17.3	68.8
1974	CCCCCCCCCCCC	MANUAL	695 JUN 16	2 MAR 4	697 JUN 15	6 160	16.9	17.2	49.0
1975	CCCCCCCCCCCC	MANUAL	154 JUN 20	0 AUG 5 *	73.4 JUN 20	1 580	4.33	14.6	48.0
1976	CCCCCCCCCCCC	MANUAL	221 AUG 9	2 JAN 1	189 AUG 9	2 190	5.99	13.2	44.8
1977	CCCCCCCCCCCC	MANUAL	89 JAN 20	2 JUL 10	9.2 MAY 11	308	0.843	11.4	46.4

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH * - EXTREME FOR PERIOD OF RECORD

HALFWAY RIVER NEAR FARRELL CREEK (LOWER STATION) - STATION NO. 07FA001

LOCATION: LAT 56 13 40 N LONG 121 28 50 W
DRAINAGE AREA: 9 400 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1982	----PP-P-P--	MANUAL	1 260 MAY 3 *	20 OCT 21 *	--- ---	---	---	---	---
1983	-----PP--P--	MANUAL	309 JUN 3	38 OCT 6	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

HARRISON RIVER NEAR HARRISON HOT SPRINGS - STATION NO. 08MG013

LOCATION: LAT 49 18 40 N LONG 121 48 08 W
DRAINAGE AREA: 7 870 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1965	-----CCCCCCC	MANUAL	6 JUN 27	1 JUL 13	449 JUN 27	33 100	---	---	---
1966	CCCCCCCCCCCC	MANUAL	21 DEC 17	1 JUN 8	1 870 DEC 19	72 600	199	199	---
1967	CCCCCCCCCCCC	MANUAL	8 JAN 1	1 MAR 14	421 JUL 19	52 700	144	172	15.9
1968	CCCCCCCCCCCC	MANUAL	12 JUL 12	1 APR 12	1 580 JUL 13	78 100	213	185	11.3
1969	CCCCCCCCCCCC	MANUAL	50 MAR 15 *	1 DEC 4	2 140 JUN 14 *	100 000 *	274	208	12.9
1970	CCCCCCCCCCCC	MANUAL	24 JUN 24	0 SEP 12 *	2 090 JUN 24	61 300	171	200	11.0
1971	PP----------	MANUAL	9 JAN 4	4 FEB 1	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

HOMATHKO RIVER AT THE MOUTH - STATION NO. 08GD004

LOCATION: LAT 50 59 05 N LONG 124 55 01 W
DRAINAGE AREA: 5 720 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : APR-SEP MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1982	-----P-P-P--	MANUAL	550	JUN 15	226	OCT 4	---	---	---	---	---	---
1983	---CCCCCCP--	MANUAL	1 610	JUL 19 *	7	APR 13 *	105 000	JUL 19 *	2 720 000 *	14 800	14 800	---
1984	-----PPP----	MANUAL	968	JUL 17	99	JUN 1	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

HOMATHKO RIVER AT TRAGEDY CANYON - STATION NO. 08GD006

LOCATION: LAT 51 15 58 N LONG 124 53 13 W
DRAINAGE AREA: 4 070 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE VERTICAL SAMPLING (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JUN 05	14:50	7.0	33.4	42	M	P61	145	27														
JUN 05	14:56	7.0	35.2	37.5	M	P61	140	15														
JUN 05	15:03	7.0	32.6	33	M	P61	147	18														
JUN 05	15:09	7.0	35.8	28.5	M	P61	159	18														
JUN 05	15:17	7.0	40.0	21	M	P61	145	19														
JUL 19	10:10	8.0	39.0	44	M	P61	245	50														
JUL 19	10:15	8.0	74.1	39.5	M	P61	228	52	07	13	24	35	43	56	76	88	97	100		44	43	13
JUL 19	10:22	8.0	61.5	33.5	M	P61	258	54	11	19	37	46	56	76	91	99	100	100		42	39	19
JUL 19	10:29	8.0	57.8	27.5	M	P61	294	57	11	16	24	32	41	53	69	83	95	100		47	37	16
JUL 19	10:35	8.0	64.5	20.5	M	P61	255	52	07	12	21	30	36	47	64	80	92	100		53	35	12
SEP 24	13:40	7.0	41.4	42.5	M	P61	307	31	08	13	22	31	40	53	70	82	91	100		47	40	13
SEP 24	13:49	7.0	45.5	38	M	P61	314	25	09	17	27	40	54	68	84	95	99	100		32	51	17
SEP 24	14:02	7.0	47.5	33.5	M	P61	335	20	11	19	30	41	52	64	81	92	100			36	45	19
SEP 24	14:11	7.0	42.9	27.5	M	P61	371	21	09	18	29	40	50	62	77	89	96	100		38	44	18
SEP 24	14:17	7.0	48.3	21.5	M	P61	339	22	11	14	23	32	43	55	70	83	91	99	100	45	41	14
									13	20	29	37	47	59	77	87	95	100		41	39	20

NOTE: SINGLE VERTICAL IS UNDETERMINED FOR 1990

VERTICAL SYMBOL(S): M - A SEDIMENT MEASUREMENT VERTICAL

HOMATHKO RIVER AT TRAGEDY CANYON - STATION NO. 08GD006

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : APR-SEP MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1982	-----P-P-P--	MANUAL	320	JUN 15	28	OCT 5	---	---	---	---	---	---
1983	---CCCCCCC--	MANUAL	1 800	JUL 19 *	5	OCT 24 *	54 400	JUL 19 *	1 140 000 *	6 210	6 210	---
1984	----PPPP----	MANUAL	520	JUL 16	114	MAY 31	---	---	---	---	---	---
1989	-----P-PP---	MANUAL	1 430	AUG 1	59	SEP 20	---	---	---	---	---	---
1990	-----PP-P---	MANUAL	371	SEP 24	140	JUN 5	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

HOMATHKO RIVER BELOW NOSTETUKO RIVER - STATION NO. 08GD009

LOCATION: LAT 51 25 16 N LONG 124 30 25 W
DRAINAGE AREA: 1 550 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE VERTICAL SAMPLING (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JUN	05 18:17	8.0	7.30	44	M	P61	38	59														
JUN	05 18:23	8.0	6.38	40	M	P61	36	64														
JUN	05 18:28	8.0	6.58	33	M	P61	29	68														
JUN	05 18:33	8.0	7.42	28.5	M	P61	38	53														
JUN	05 18:39	8.0	7.99	23	M	P61	32	68														
JUL	19 16:35	13.0	8.95	46	M	P61	74	37														
JUL	19 16:42	13.0	11.7	40	M	P61	89	45														
JUL	19 16:49	13.0	10.6	34.5	M	P61	94	30														
JUL	19 16:55	13.0	13.7	28.5	M	P61	141	36														
JUL	19 17:01	13.0	13.4	23.5	M	P61	103	40														

NOTE: SINGLE VERTICAL IS UNDETERMINED FOR 1990

VERTICAL SYMBOL(S): M - A SEDIMENT MEASUREMENT VERTICAL

HOMATHKO RIVER BELOW NOSTETUKO RIVER - STATION NO. 08GD009

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)			MINIMUM (MG/L)			SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1983	------PPPP--	MANUAL	1 370	AUG 11		4	OCT 20	*	---	---	---	---	---	---
1984	-----PPP----	MANUAL	718	AUG 12		52	JUN 1		---	---	---	---	---	---
1989	-----P-P----	MANUAL	1 820	AUG 1	*	113	JUN 8		---	---	---	---	---	---
1990	-----PP-----	MANUAL	141	JUL 19		29	JUN 5		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

HOMATHKO RIVER BELOW NUDE CREEK - STATION NO. 08GD005

LOCATION: LAT 51 22 28 N LONG 124 45 43 W
DRAINAGE AREA: 1 960 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE VERTICAL SAMPLING (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JUN	06 15:15	8.0	10.0	41	M	P61	46	63														
JUN	06 15:22	8.0	10.7	37	M	P61	53	64														
JUN	06 15:28	8.0	10.8	32	M	P61	53	61														
JUN	06 15:35	8.0	8.88	27	M	P61	68	65														
JUN	06 15:42	8.0	13.9	22.5	M	P61	61	70														
JUL	19 13:25	11.0	18.5	41	M	P61	179	32														
JUL	19 13:31	11.0	19.7	36	M	P61	247	35														
JUL	19 13:38	11.0	18.2	32	M	P61	245	36														
JUL	19 13:44	11.0	18.5	26.5	M	P61	280	28														
JUL	19 13:51	11.0	23.4	20.5	M	P61	354	25														
SEP	26 09:43	6.5	8.60	40.5	M	P61	177	29														
SEP	26 09:51	6.5	8.10	37	M	P61	197	33														
SEP	26 09:58	6.5	9.93	32	M	P61	196	45														
SEP	26 10:08	6.5	8.47	27	M	P61	206	35														
SEP	26 10:11	6.5	9.38	22	M	P61	206	34														

NOTE: SINGLE VERTICAL IS UNDETERMINED FOR 1990

VERTICAL SYMBOL(S): M - A SEDIMENT MEASUREMENT VERTICAL

HOMATHKO RIVER BELOW NUDE CREEK - STATION NO. 08GD005

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)			MINIMUM (MG/L)			SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : APR-SEP MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1982	-----P--PP--	MANUAL	702	SEP 1	*	19	OCT 5	*	---	---	---	---	---	---
1983	---CCCCCCC--	MANUAL	2 600	JUL 19	*	4	APR 12	*	25 800	JUL 19 *	475 000 *	2 590	2 590	---
1984	-----PPP----	MANUAL	462	AUG 12		34	JUN 1		---	---	---	---	---	---
1989	-----P-PP---	MANUAL	2 000	AUG 1		24	SEP 20		---	---	---	---	---	---
1990	-----PP-P---	MANUAL	354	JUL 19		46	JUN 6		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

HYLAND RIVER NEAR LOWER POST - STATION NO. 10AD001

LOCATION: LAT 59 57 03 N LONG 128 09 03 W
DRAINAGE AREA: 9 450 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1972	-----P------	MANUAL	572 JUN 1 *	572 JUN 1 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

ISKUT RIVER ABOVE SNIPPAKER CREEK - STATION NO. 08CG004

LOCATION: LAT 56 41 55 N LONG 130 52 23 W
DRAINAGE AREA: 7 230 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JUN-OCT MEAN LOAD (TONNES)	SUMMARY : JUN-OCT HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JUN-OCT STANDARD ERROR OF MEAN %
1982	--PPCCCCCC--	MANUAL	2 670 OCT 13 *	3 MAR 16 *	205 000 OCT 13 *	4 900 000 *	31 200	31 200	---
1983	--PP--PP-P--	MANUAL	568 JUL 21	5 MAR 24	--- ---	---	---	---	---
1984	-PP-PP-PP---	MANUAL	859 JUN 25	6 FEB 12	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

ISKUT RIVER BELOW JOHNSON RIVER - STATION NO. 08CG001

LOCATION: LAT 56 44 20 N LONG 131 40 25 W
DRAINAGE AREA: 9 350 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JUN-OCT MEAN LOAD (TONNES)	SUMMARY : JUN-OCT HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JUN-OCT STANDARD ERROR OF MEAN %
1982	---PPCCCCC--	MANUAL	2 250 OCT 13 *	13 APR 19	325 000 OCT 13 *	5 980 000 *	38 600	38 600	---
1983	--P--PPP-P--	MANUAL	870 JUN 2	1 MAR 24 *	--- ---	---	---	---	---
1984	-PP-PPPPPP--	MANUAL	775 AUG 6	6 MAR 19	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

JOHN CREEK NEAR MEADOW CREEK - STATION NO. 08NH125

LOCATION: LAT 50 15 32 N LONG 116 59 57 W
DRAINAGE AREA: 34.7 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1967	-----CCCCCCC	MANUAL	820 JUN 21	1 OCT 18	391 JUN 21	3 640	---	---	---
1968	CCCCCCCCCCCC	MANUAL	822 MAY 19	2 JAN 13	254 JUN 2	3 200	8.75	8.75	---
1969	CCCCCCCCCCCC	MANUAL	220 MAY 25	1 AUG 29	100 JUN 5	1 500	4.11	6.43	36.0
1970	CCCCCCCCCCCC	MANUAL	324 JUN 3	0 MAR 12 *	128 JUN 4	1 020	2.80	5.22	34.6
1971	CCCCCCCCCCCC	MANUAL	325 MAY 12	0 JAN 5	151 MAY 12	1 550	4.59	5.06	25.4
1972	CCCCCCCCCCCC	MANUAL	1 110 JUN 10 *	0 JAN 5	758 JUN 10 *	4 990 *	14.3	6.91	30.4
1973	CCCCCC------	MANUAL	209 MAY 16	0 JAN 27	57.8MAY 16	410	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH * - EXTREME FOR PERIOD OF RECORD

KECHIKA RIVER AT THE MOUTH - STATION NO. 10BB001

LOCATION: LAT 59 36 55 N LONG 127 18 37 W
DRAINAGE AREA: 22 700 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1972	-----P------	MANUAL	245 JUN 6		245 JUN 6		---	---	---	---	---	---
1982	-----P-P----	MANUAL	391 JUN 17	*	47 AUG 26		---	---	---	---	---	---
1983	-----P-P-P--	MANUAL	145 JUN 23		9 OCT 25	*	---	---	---	---	---	---
1984	------P-----	MANUAL	124 JUL 26		106 JUL 26		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

KITIMAT RIVER BELOW HIRSCH CREEK - STATION NO. 08FF001

LOCATION: LAT 54 03 34 N LONG 128 40 29 W
DRAINAGE AREA: 1 990 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	PERCENT SILT	PERCENT CLAY
MAY 02	14:37	6.0	19.2	11	M	D49	8	39														
MAY 02	14:48	6.0	32.9	20	M	D49	9	36														
MAY 02	14:56	6.0	28.0	26	M	D49	13	43														
MAY 02	15:09	6.0	19.3	15	M	D49	15	44														
MAY 02	15:18	6.0	31.8	50	M	D49	10	40														
JUN 22	12:56	9.5	44.9	155	M	D49	54	34														
JUN 22	13:05	9.5	68.2	140	M	D49	67	33														
JUN 22	13:13	9.5	61.8	128	M	D49	94	32														
JUN 22	13:21	9.5	67.3	120	M	D49	71	29														
JUN 22	13:28	9.5	72.7	110	M	D49	50	30														
AUG 21	14:08	15.0	15.1	145	M	D49	13	35														
AUG 21	14:17	15.0	18.9	133	M	D49	15	33														
AUG 21	14:27	15.0	18.9	125	M	D49	14	32														
AUG 21	14:31	15.0	15.8	120	M	D49	15	34														
AUG 21	14:39	15.0	23.1	115	M	D49	12	35														
OCT 04	13:18	8.0	7.63	138	M	D49	3	22														
OCT 04	13:26	8.0	7.64	130	M	D49	4	16														
OCT 04	13:33	8.0	9.78	125	M	D49	5	12														
OCT 04	13:42	8.0	11.0	120	M	D49	3	20														
OCT 04	13:48	8.0	11.6	115	M	D49	4	22														

NOTE: SINGLE VERTICAL IS UNDETERMINED FOR 1990

VERTICAL SYMBOL(S): M - A SEDIMENT MEASUREMENT VERTICAL

KITIMAT RIVER BELOW HIRSCH CREEK - STATION NO. 08FF001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1988	----P-PP-P--	MANUAL	115 OCT 12	*	3 JUL 18	*	---	---	---	---	---	---
1989	-----P-PPP--	MANUAL	61 JUN 14		3 SEP 13		---	---	---	---	---	---
1990	----PP-P-P--	MANUAL	94 JUN 22		3 OCT 4		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

KLAPPAN RIVER NEAR TELEGRAPH CREEK - STATION NO. 08CC001

LOCATION: LAT 57 54 00 N LONG 129 42 14 W
DRAINAGE AREA: 3 550 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1982	-----P-P-P--	MANUAL	718 JUN 19	7 OCT 5 *	--- ---	---	---	---	---
1983	-----P-P-P--	MANUAL	775 JUN 3	7 OCT 23	--- ---	---	---	---	---
1984	-----PP-----	MANUAL	904 JUN 10 *	135 JUL 29	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

KOOTENAI RIVER NEAR COPELAND - STATION NO. 08NH031

LOCATION: LAT 48 54 18 N LONG 116 24 07 W
DRAINAGE AREA: 34 700 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: MANUAL

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1966	-----CCCCCCC	MANUAL	565 JUN 1	2 SEP 15	114 000 JUN 1	859 000	---	---	---
1967	CCCCCCCCCCCC	MANUAL	620 MAY 24	1 OCT 24 *	133 000 MAY 24 *	2 420 000 *	6 620	6 620	---
1968	CCCCCCCCCCCC	MANUAL	660 JUN 5 *	1 JAN 8	106 000 JUN 5	1 050 000	2 860	4 740	39.7
1969	CCCCCCCCCCCC	MANUAL	580 APR 25	1 SEP 20	114 000 MAY 15	2 350 000	6 430	5 300	23.1
1970	CCCCCCCCCCCC	MANUAL	288 JUN 7	1 AUG 28	45 000 JUN 7	666 000	1 820	4 430	27.7
1971	CCCCCCCCCCCC	MANUAL	515 MAY 15	1 JAN 5	109 000 MAY 15	2 250 000	6 160	4 780	21.2
1972	CCCCCCCCCCCC	MANUAL	201 MAY 16	1 JAN 1	25 900 MAY 16	642 000	1 750	4 270	22.6
1973	CCCCCCCCCCCC	MANUAL	35 MAY 17	1 FEB 24	1 950 MAY 17	57 400	157	3 690	27.3
1974	CCCCCCCCCPPP	MANUAL	530 JAN 17	1 SEP 21	70 100 JAN 17	877 000	---	---	---
1975	PPCCCPCCCCCC	MANUAL	583 DEC 5	1 JAN 5	54 900 DEC 5	358 000	---	---	---
1976	CCCCCCCCCCCP	MANUAL	167 MAY 12	2 JUL 14	15 300 MAY 12	230 000	---	---	---
1977	CCCPCCCCCCCC	MANUAL	27 MAY 4	1 FEB 27	1 530 MAY 4	75 800	---	---	---
1978	CCCCCCCCCCCC	MANUAL	40 MAY 17	1 FEB 11	2 440 MAY 16	160 000	437	3 280	29.3
1979	CCCCCCCCCCCC	MANUAL	61 MAY 5	1 FEB 11	3 310 MAY 6	86 500	237	2 940	31.0
1980	CCCCCCCCCCCC	MANUAL	79 JUN 20	1 AUG 18	6 180 JUN 20	127 000	348	2 680	32.0
1981	CCCCCCCCCCCC	MANUAL	178 JUL 9	1 OCT 4	18 900 JUL 9	329 000	900	2 520	31.4

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

KOOTENAY RIVER AT CANAL FLATS - STATION NO. 08NF002

LOCATION: LAT 50 08 52 N LONG 115 47 57 W
DRAINAGE AREA: 5 390 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1982	----P-PP-P--	MANUAL	56 MAY 28	3 OCT 25 *	--- ---	---	---	---	---
1983	----PPPPP---	MANUAL	70 JUN 6 *	5 SEP 26	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

KOOTENAY RIVER AT FORT STEELE - STATION NO. 08NG065

LOCATION: LAT 49 36 43 N LONG 115 38 04 W
DRAINAGE AREA: 11 400 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAR 06	12:00	2.5	5.00	152	M	D49	6	221														
MAR 06	12:08	2.5	8.21	141	M	D49	6	555														
MAR 06	12:18	2.5	8.34	132	M	D49	6	519														
MAR 06	12:22	2.5	8.63	123	M	D49	5	520														
MAR 06	12:28	2.5	7.79	160	M	D49	5	520														
JUN 05	13:20	9.0	103	160	M	P61	335	130	05	11	28	49	66	80	92	98	100			20	69	11
JUN 05	13:30	9.0	168	135	M	P61	427	117	10	13	24	43	58	67	88	98	100			33	54	13
JUN 05	13:40	9.0	148	120	M	P61	281	128	11	15	27	46	61	73	90	98	100			27	58	15
JUN 05	13:50	9.0	174	100	M	P61	240	112	11	15	29	51	66	81	93	99	100			19	66	15
JUN 05	13:50	9.0	174	60	M	P61	191	148	02	21	51	74	85	95	99	100				15	83	2
JUN 05	13:55	9.0	130	45	M	P61	318	127	11	17	30	50	70	85	95	100				29	60	11
JUN 05	13:55	9.0	130	90	M	P61	372	132	07	12	24	43	64	77	92	100				33	55	12
JUN 27	13:41	11.0	183	110	M	P61	441	130	10	13	25	41	53	67	86	98	100			34	53	13
JUN 27	13:48	11.0	187	130	M	P61	570	138	06	10	23	38	46	56	74	91	99	100		44	46	10
JUN 27	13:54	11.0	210	150	M	P61	527	143	08	12	25	45	58	71	87	97	100			29	59	12
JUN 27	13:59	11.0	214	135	M	P61																
JUN 27	14:05	11.0	202	150	M	P61																
OCT 25	10:36	8.0	9.06	105	M	D49	3	196														
OCT 25	10:43	8.0	14.8	114	M	D49	3	191														
OCT 25	10:48	8.0	14.1	126	M	D49	4	183														
OCT 25	10:52	8.0	14.5	135	M	D49	3	194														
OCT 25	10:58	8.0	15.4	144	M	D49	3	200														

NOTE: SINGLE VERTICAL IS UNDETERMINED FOR 1990

VERTICAL SYMBOL(S): M - A SEDIMENT MEASUREMENT VERTICAL

KOOTENAY RIVER AT FORT STEELE - STATION NO. 08NG065

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)			MINIMUM (MG/L)			SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1988	-----PP--P--	MANUAL	43	JUN 1		2	OCT 25	*	---	---	---	---	---	---
1989	P-----P-P---P	MANUAL	322	JUN 9		2	JAN 10		---	---	---	---	---	---
1990	--P--P---P---	MANUAL	570	JUN 27	*	2	OCT 25		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

KOOTENAY RIVER AT NICKS ISLAND - STATION NO. 08NH129

LOCATION: LAT 49 07 02 N LONG 116 34 39 W
DRAINAGE AREA:
TYPE OF FLOW: REGULATED SINCE 1972
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)			MINIMUM (MG/L)			SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1970	----CCCCCCCC	MANUAL	323	JUN 7		2	SEP 29		---	---	---	---	---	---
1971	CCCCCCCCCCCC	MANUAL	686	MAY 15		1	FEB 19		---	---	---	---	---	---
1972	CCCCCCCCCCCC	MANUAL	279	MAY 16		1	AUG 13		---	---	---	---	---	---
1973	CCCCCCCCCCCC	MANUAL	155	NOV 15		3	MAR 16		---	---	---	---	---	---
1974	CCCCCCCCCCCC	MANUAL	960	JAN 18	*	1	SEP 2		---	---	---	---	---	---
1975	CCCCCCCCCCCC	MANUAL	301	DEC 6		0	OCT 15	*	---	---	---	---	---	---
1976	CCCCCCCCCCCC	MANUAL	170	MAY 11		0	JUL 27		---	---	---	---	---	---
1977	CCCCCCCCCCCC	MANUAL	67	APR 27		1	AUG 2		---	---	---	---	---	---
1978	PPPPCCPPPPPP	MANUAL	65	MAY 5		1	SEP 2		---	---	---	---	---	---
1979	PPPPPPPPPPPP	MANUAL	41	MAY 9		0	FEB 8		---	---	---	---	---	---
1980	PPPPCCCPPPPP	MANUAL	730	DEC 29		0	JUL 3		---	---	---	---	---	---
1981	PPPPPPPPPPPP	MANUAL	113	JUL 19		2	AUG 23		---	---	---	---	---	---
1982	PPPPCCPPPPPP	MANUAL	120	FEB 25		0	NOV 12		---	---	---	---	---	---
1983	PPPPPPCPPPPP	MANUAL	91	MAY 26		0	FEB 25		---	---	---	---	---	---
1984	PPPPPPPPPPPP	MANUAL	107	APR 23		0	APR 26		---	---	---	---	---	---
1985	PPPPPPPPPPPP	MANUAL	93	MAY 19		1	SEP 4		---	---	---	---	---	---
1986	PPPPPPPPPPPP	MANUAL	717	JUL 2		1	OCT 3		---	---	---	---	---	---
1987	PPPPPP------	MANUAL	375	MAY 1		2	FEB 16		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

LIARD RIVER ABOVE BEAVER RIVER - STATION NO. 10BE005

LOCATION: LAT 59 44 33 N LONG 124 28 35 W
DRAINAGE AREA: 119 000 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1982	-----PP-P---	MANUAL	238 JUN 9	7 SEP 29	---	---	---	---	---	---
1983	----PPP-P---	MANUAL	265 JUN 7 *	5 SEP 28 *	---	---	---	---	---	---
1984	----P-P-P---	MANUAL	101 JUL 26	15 SEP 27	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

LIARD RIVER ABOVE KECHIKA RIVER - STATION NO. 10BE006

LOCATION: LAT 59 42 04 N LONG 127 13 39 W
DRAINAGE AREA: 61 600 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1982	-----P------	MANUAL	120 JUN 18	120 JUN 18	---	---	---	---	---	---
1983	-------P-P--	MANUAL	17 AUG 30	8 OCT 17	---	---	---	---	---	---
1984	-----P-P----	MANUAL	261 JUN 14 *	6 AUG 6 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

LIARD RIVER AT LOWER CROSSING - STATION NO. 10BE001

LOCATION: LAT 59 24 45 N LONG 126 05 50 W
DRAINAGE AREA: 104 000 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1972	-----P------	MANUAL	822 JUN 2 *	822 JUN 2	---	---	---	---	---	---
1983	----PP-PP---	MANUAL	154 MAY 13	7 SEP 29 *	---	---	---	---	---	---
1984	----PPP-P---	MANUAL	391 JUN 15	21 SEP 29	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

LINE CREEK AT THE MOUTH - STATION NO. 08NK022

LOCATION: LAT 49 53 29 N LONG 114 50 00 W
DRAINAGE AREA: 138 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1971	---PCCCCCCCC	MANUAL	101 MAY 7	1 JUN 22	88.2	MAY 12	1 380	---	---	---
1972	----CCCCCCCC	MANUAL	224 JUN 2	0 JUN 25 *	509	JUN 2	2 730	---	---	---
1973	CCCCCCCCCCCC	MANUAL	52 MAY 16	0 MAR 20	42.6	MAY 18	432	1.25	1.25	---
1974	CCCCCCCCCCCC	MANUAL	625 JUN 16 *	0 NOV 24	2 190	JUN 16 *	12 000 *	35.8	18.5	93.3
1975	CCCCCCCCCCCC	MANUAL	55 OCT 6	0 JAN 21	53.2	JUN 2	1 120	3.13	13.4	83.8
1976	CCCCCCCCCCCC	MANUAL	58 OCT 26	1 JUL 6	39.9	AUG 9	1 190	3.26	10.9	76.7
1977	CCCCCCCCCCCC	MANUAL	73 JAN 18	0 JUL 14	51.2	MAY 11	460	1.27	8.95	75.2

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MEADOW CREEK ABOVE JOHN CREEK - STATION NO. 08NH124

LOCATION: LAT 50 16 02 N LONG 116 59 51 W
DRAINAGE AREA: 62.7 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1967	-----CCCCCCC	MANUAL	240 JUN 22	2 DEC 25	182 JUN 22	2 120	---	---	---
1968	CCCCCCCCCCCC	MANUAL	398 JUN 2 *	1 FEB 4	212 JUN 2	1 920	5.24	5.24	---
1969	CCCCCCCCCCC	MANUAL	123 JUN 4	1 FEB 7	71.6JUN 4	1 310	3.58	4.41	18.8
1970	CCCCCCCCCCCC	MANUAL	165 JUN 4	1 JAN 1	76.7JUN 4	1 080	2.95	3.93	17.4
1971	CCCCCCCCCCCC	MANUAL	276 JUN 23	0 OCT 28 *	159 JUN 23 *	2 080	5.85	4.41	15.5
1972	CCCCCCCCCCCC	MANUAL	358 JUN 10	0 FEB 21	374 JUN 10 *	3 100 *	8.64	5.25	19.0
1973	CCCCCCC-----	MANUAL	104 MAY 16	1 FEB 1	31.7MAY 17	483	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH * - EXTREME FOR PERIOD OF RECORD

MEADOW CREEK DIVERSION BELOW JOHN CREEK - STATION NO. 08NH128

LOCATION: LAT 50 15 15 N LONG 116 59 51 W
DRAINAGE AREA:
TYPE OF FLOW: REGULATED
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1968	--CCCCCCCCCC	MANUAL	525 JUN 2	1 MAR 1	458 JUN 2	3 030	---	---	---
1969	CCCCCCCCCCC	MANUAL	194 JUN 4	1 MAR 27	96.2JUN 4	1 120	3.40	3.40	---
1970	CCCCCCCCCCCC	MANUAL	276 JUN 3	1 APR 29	173 JUN 3	2 140	5.85	4.63	26.5
1971	CCCCCCCCCCCC	MANUAL	238 MAY 12	0 MAR 8 *	121 JUN 23	2 020	5.56	4.94	15.7
1972	CCCCCCCCCCCC	MANUAL	824 JUN 10 *	0 NOV 11	538 JUN 10 *	4 390 *	12.2	6.75	28.0
1973	CCCCCCC-----	MANUAL	198 MAY 16	0 FEB 4	79.4MAY 16	572	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH * - EXTREME FOR PERIOD OF RECORD

MICHEL CREEK AT MICHEL - STATION NO. 08NK023

LOCATION: LAT 49 41 55 N LONG 114 49 24 W
DRAINAGE AREA:
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1970	CCCCCCCCCCCC	MANUAL	260 MAY 16	1 FEB 16	---	---	---	---	---	---
1971	---CCCCCCC--	MANUAL	571 MAY 17	2 OCT 7	---	---	---	---	---	---
1972	---CCCCCCCCC	MANUAL	807 JUN 1	0 JUL 31 *	---	---	---	---	---	---
1973	CCCCCCCCCCCC	MANUAL	282 MAY 18	0 JUL 1	---	---	---	---	---	---
1974	CCCCCCCCCCC	MANUAL	858 MAY 26 *	1 FEB 5	---	---	---	---	---	---
1975	CCCCCCCCC---	MANUAL	261 JUN 4	2 JAN 21	---	---	---	---	---	---
1976	CCCCCCCCCCCC	MANUAL	489 AUG 7	1 JAN 1	---	---	---	---	---	---
1977	CCCCCCCCCCC	MANUAL	124 MAY 10	1 JAN 1	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH * - EXTREME FOR PERIOD OF RECORD

MICHEL CREEK BELOW NATAL - STATION NO. 08NK020

LOCATION: LAT 49 43 49 N LONG 114 51 24 W
DRAINAGE AREA: 637 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1970	CCCCCCCCCCCC	MANUAL	380 AUG 12	4 JUN 27	1 940 MAY 17	17 100	46.8	46.8	---
1971	--CCCCCCCC--	MANUAL	529 MAY 26	1 SEP 3	4 010 MAY 26	36 900	---	---	---
1972	---CCCCCCCCC	MANUAL	1 360 JUN 1	2 AUG 8	16 900 JUN 1 *	122 000	---	---	---
1973	CCCCCCCCCCCC	MANUAL	305 MAY 18	0 OCT 6 *	2 070 MAY 18	18 000	50.2	48.5	3.5
1974	CCCCCCCCCCCC	MANUAL	880 JUN 16	0 SEP 23	13 700 JUN 16	132 000 *	364	154	68.4
1975	CCCCCCCCC---	MANUAL	690 JUN 19	3 MAR 26	6 380 JUN 19	51 300	---	---	---
1976	CCCCCCCCCCCC	MANUAL	1 940 AUG 8 *	0 SEP 16	10 100 AUG 8	67 300	192	163	45.9
1977	CCCCCCCCCCCC	MANUAL	170 MAR 16	2 SEP 19	502 MAY 11	6 380	17.5	134	48.4

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH * - EXTREME FOR PERIOD OF RECORD

MORE CREEK NEAR THE MOUTH - STATION NO. 08CG005

LOCATION: LAT 57 02 27 N LONG 130 24 05 W
DRAINAGE AREA: 844 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JUN-OCT MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1982	--PPCCCCCC---	MANUAL	1 480 SEP 2 *	0 APR 21 *	19 700 SEP 2 *	690 000 *	4 470	4 470	---
1983	--PP--PP-P--	MANUAL	501 AUG 25	1 MAR 24	--- ---	---	---	---	---
1984	-PP-PP-PP---	MANUAL	622 JUN 25	2 MAR 21	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MOSLEY CREEK NEAR DUMBELL LAKE - STATION NO. 08GD007

LOCATION: LAT 51 24 31 N LONG 124 55 54 W
DRAINAGE AREA: 1 550 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : APR-SEP MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1982	-----P--PP--	MANUAL	285 JUN 15	33 OCT 4	--- ---	---	---	---	---
1983	---CCCCCC---	MANUAL	498 JUN 1	8 APR 1 *	9 420 JUN 1 *	240 000 *	1 310	1 310	---
1984	----PPPP----	MANUAL	559 JUL 16 *	75 MAY 31	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

BRITISH COLUMBIA

MURRAY RIVER ABOVE WOLVERINE RIVER - STATION NO. 07FB006

LOCATION: LAT 55 03 55 N LONG 121 01 00 W
DRAINAGE AREA: 2 410 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE VERTICAL SAMPLING (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 24	15:37	1.0	18.0	82.0	M	DH59	80	155														
APR 24	15:45	1.0	15.9	71.0	M	DH59	82	176														
APR 24	15:53	1.0	17.6	62.0	M	DH59	83	165														
APR 24	16:00	1.0	17.4	47.0	M	DH59	83	160														
APR 24	16:08	1.0	17.2	31.0	M	DH59	89	159														
MAY 09	12:33	9.0	19.7	31.0	M	DH59	1087	171	24	27	37	51	67	84	95	99	100			16	57	27
MAY 09	12:42	9.0	19.4	43.0	M	DH59	1223	158	11	15	26	39	55	77	97	100				23	62	15
MAY 09	12:52	9.0	27.4	59.0	M	DH59	1329	171	07	11	20	32	49	72	95	100				28	61	11
MAY 09	13:00	9.0	23.1	70.0	M	DH59	1239	173	06	10	19	32	50	74	96	100				26	64	10
MAY 09	13:07	9.0	26.2	80.0	M	DH59	1070	166	11	15	26	39	55	83	100					17	68	15
JUN 09	11:43	7.0	44.4	28.0	M	D49	155	96														
JUN 09	11:49	7.0	44.2	44.0	M	D49	92	88														
JUN 09	11:54	7.0	55.3	56.0	M	D49	114	97														
JUN 09	12:00	7.0	58.6	71.0	M	D49	102	91														
JUN 09	12:06	7.0	51.1	83.0	M	D49	89	96														
JUN 15	13:42	11.0	68.2	25.0	M	D49	237	117	15	19	32	55	71	85	96	99	100			15	66	19
JUN 15	13:46	11.0	77.6	41.0	M	D49	246	119	11	19	31	53	69	80	95	100				20	61	19
JUN 15	13:53	11.0	86.8	57.0	M	D49	219	125	11	18	28	50	67	79	93	99	100			21	61	18
JUN 15	13:59	11.0	77.5	70.0	M	D49	205	119	12	12	26	48	70	84	94	100				16	72	12
JUN 15	14:02	11.0	84.9	82.0	M	D49	260	127	14	16	28	45	63	78	97	100				22	62	16
SEP 05	14:36	12.0	3.72	41.0	M	DH59	2	129														
SEP 05	14:43	12.0	4.53	55.0	M	DH59	5	123														
SEP 05	14:49	12.0	4.99	65.0	M	DH59	5	128														
SEP 05	14:53	12.0	4.30	73.0	M	DH59	3	131														
SEP 05	14:58	12.0	4.91	81.0	M	DH59	2	133														

NOTE: SINGLE VERTICAL IS LOCATED AT 61.0 METRES FOR 1990

VERTICAL SYMBOL(S): M - A SEDIMENT MEASUREMENT VERTICAL

MURRAY RIVER ABOVE WOLVERINE RIVER - STATION NO. 07FB006

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MAY-OCT MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1978	----CCCCC---	MANUAL	183	MAY 21	1 AUG 28 *		3 620	MAY 21	37 200	---	---	---
1979	----PCCCC---	MANUAL	230	JUN 3	2 SEP 7		7 660	JUN 4	68 900	---	---	---
1980	-----PCCCC--	MANUAL	29	JUN 30	3 OCT 21		461	JUN 30	10 500	---	---	---
1981	----CCCCCC--	MANUAL	391	MAY 22	1 OCT 5		14 300	MAY 22	126 000	686	686	---
1982	----CCCCCC--	MANUAL	2 400	JUL 16 *	3 OCT 8		124 000	JUL 16 *	375 000 *	2 040	1 360	49.6
1983	---PCCCCCC--	MANUAL	180	MAY 31	2 AUG 22		4 150	MAY 31	38 500	204	975	56.2
1984	---CCCCCCC--	MANUAL	123	JUN 11	3 APR 1		3 070	OCT 9	49 800	268	799	53.3
1985	---PCCCCCC--	MANUAL	446	MAY 18	1 OCT 25		7 440	MAY 18	73 500	399	719	47.2
1986	----P--P-P--	MANUAL	210	MAY 31	2 OCT 21		---	---	---	---	---	---
1987	---PP-P--P--	MANUAL	71	MAY 29	1 OCT 16		---	---	---	---	---	---
1988	---P-P-P-P--	MANUAL	34	JUN 8	4 AUG 4		---	---	---	---	---	---
1989	----PP-P-P--	MANUAL	78	MAY 11	9 OCT 17		---	---	---	---	---	---
1990	---PPP--P---	MANUAL	1 330	MAY 9	2 SEP 5		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MURRAY RIVER NEAR THE MOUTH - STATION NO. 07FB002

LOCATION: LAT 55 34 15 N LONG 121 11 19 W
DRAINAGE AREA: 5 620 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : JUN-SEP MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1978	----CCCCC---	MANUAL	1 230	MAY 21	6 AUG 2		32 200	MAY 21	238 000	722	722	---
1979	-----CCCC---	MANUAL	923	JUN 5	4 SEP 25		47 200	JUN 6	467 000	3 820	2 270	68.2
1980	----P-------	MANUAL	177	MAY 14	177 MAY 14		---	---	---	---	---	---
1981	----PCCCCC--	MANUAL	1 900	MAY 23	1 OCT 21 *		106 000	MAY 23	610 000	921	1 820	55.0
1982	----PCCCCC--	MANUAL	33 300	JUL 15 *	9 SEP 8		1 810 000	JUL 15 *	4 040 000 *	31 900	9 340	80.8
1983	----CCCCCCP-	MANUAL	4 230	JUL 15	7 NOV 18		180 000	JUL 16	804 000	5 340	8 540	69.1

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

MUSKWA RIVER NEAR FORT NELSON - STATION NO. 10CD001

LOCATION: LAT 58 47 18 N LONG 122 39 33 W
DRAINAGE AREA: 20 300 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAY 14	15:00	4.0	65.8	180	M	D49	335	166	18	24	36	56	75	92	95	98	99	100		8	68	24
MAY 14	15:07	4.0	76.2	34.0	M	D49	354	157	20	27	44	61	75	84	90	95	98	100		16	57	27
MAY 14	15:14	4.0	64.1	50.0	M	D49	346	163	21	24	41	60	72	82	91	96	99	100		18	58	24
MAY 14	15:22	4.0	79.8	63.0	M	D49	330	162	30	32	49	71	85	92	97	100				8	60	32
MAY 14	15:30	4.0	71.6	90.0	M	D49	311	175	24	33	53	77	89	97	99	100				3	64	33

NOTE: SINGLE VERTICAL LOCATED AT 3QLE (THREE QUARTER THE DISTANCE FROM THE LEFT BANK) FOR 1990

VERTICAL SYMBOL(S): M - A SEDIMENT MEASUREMENT VERTICAL

MUSKWA RIVER NEAR FORT NELSON - STATION NO. 10CD001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)			MINIMUM (MG/L)			SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)			TOTAL FOR PERIOD (TONNES)	SUMMARY : MAY-JUL MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1979	---PCCP-----	MANUAL	8 550	JUL 3	*	77	MAY 22		2 230 000	JUL 3	*	8 020 000	---	---	---
1980	---PCCC-----	MANUAL	8 030	JUL 24		144	MAY 10		1 570 000	JUL 24		7 620 000	82 600	82 600	---
1982	----CCCCCC--	MANUAL	7 320	MAY 18		9	OCT 31		1 520 000	MAY 19		7 310 000	76 200	79 400	4.0
1983	----CCCCCC--	MANUAL	7 070	JUN 20		8	OCT 30	*	1 150 000	JUN 20		5 330 000	54 100	71 000	12.2
1984	----CCCPP---	MANUAL	8 190	MAY 17		48	MAY 14		1 820 000	JUN 7		9 990 000	* 109 000	80 400	13.9
1988	----PP--P---	MANUAL	1 120	MAY 6		99	SEP 10		---	---		---	---	---	---
1989	----P-P-P---	MANUAL	513	MAY 23		100	SEP 12		---	---		---	---	---	---
1990	----P--------	MANUAL	354	MAY 14		311	MAY 14		---	---		---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

NECHAKO RIVER AT VANDERHOOF - STATION NO. 08JC001

LOCATION: LAT 54 01 34 N LONG 124 00 28 W
DRAINAGE AREA: 25 100 km²
TYPE OF FLOW: REGULATED SINCE 1952
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAY 01	12:36	6.5	75.1	115	M	D49	19	57														
MAY 01	12:43	6.5	65.4	97	M	D49	17	50														
MAY 01	12:47	6.5	63.8	75	M	D49	23	55														
MAY 01	12:54	6.5	63.1	58	M	D49	17	52														
MAY 01	12:59	6.5	57.8	36	M	D49	15	56														
MAY 14	12:30	11.5	40.4	110	M	D49	12	65														
MAY 14	12:35	11.5	34.8	95	M	D49	9	65														
MAY 14	12:42	11.5	42.8	70	M	D49	11	65														
MAY 14	12:47	11.5	36.7	60	M	D49	10	67														
MAY 14	12:59	11.5	31.9	40	M	D49	10	67														
JUN 22	10:32	20.0	23.1	36	M	D49	4	71														
JUN 22	10:39	20.0	22.4	61	M	D49	8	80														
JUN 22	10:46	20.0	30.5	71	M	D49	7	84														
JUN 22	10:57	20.0	20.7	90.5	M	D49	7	86														
JUN 22	11:05	20.0	34.2	106	M	D49	7	76														
JUL 31	11:25	20.0	73.8	115	M	D49	8	45														
JUL 31	11:33	20.0	61.3	97	M	D49	5	44														
JUL 31	11:38	20.0	57.6	77	M	D49	6	45														
JUL 31	11:43	20.0	68.2	60	M	D49	7	47														
JUL 31	11:50	20.0	49.2	35	M	D49	6	57														
AUG 23	10:52	18.0	39.4	105	M	D49	5	57														
AUG 23	11:02	18.0	21.0	82	M	D49	4	51														
AUG 23	11:14	18.0	29.7	67	M	D49	4	54														
AUG 23	11:22	18.0	22.5	57	M	D49	3	50														
AUG 23	11:30	18.0	22.5	40	M	D49	3	52														
OCT 11	11:16	7.0	4.37	35	M	D49	2	64														
OCT 11	11:26	7.0	10.7	58	M	D49	3	55														
OCT 11	11:32	7.0	10.6	64	M	D49	2	54														
OCT 11	11:36	7.0	14.9	70	M	D49	1	52														
OCT 11	11:49	7.0	4.78	95	M	D49	1	63														

NOTE: SINGLE VERTICAL IS UNDETERMINED FOR 1990

VERTICAL SYMBOL(S): M - A SEDIMENT MEASUREMENT VERTICAL

NECHAKO RIVER AT VANDERHOOF - STATION NO. 08JC001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1989	----P-PPP---	MANUAL	24 MAY 10 *		1 JUL 5 *		---	---	---	---	---	---
1990	----PPPP-P--	MANUAL	23 MAY 1		1 OCT 11		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

NORRISH CREEK NEAR DEWDNEY - STATION NO. 08MH058

LOCATION: LAT 49 11 29 N LONG 122 09 26 W
DRAINAGE AREA: 117 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	PERCENT SILT	PERCENT CLAY
JAN 24	12:40	4.5	1.07	3.2	L	DH48	5	18														
JAN 24	12:44	4.5	1.53	6.4	L	DH48	7	28														
JAN 24	12:49	4.5	1.44	8.7	L	DH48	9	20														
JAN 24	12:53	4.5	1.48	10.8	L	DH48	5	25														
JAN 24	12:58	4.5	1.73	13.3	L	DH48	3	22														
JAN 24	13:05	4.5	7.25	WERB	K	DIP	4	20														
APR 30	13:54	9.0	10.4	12.0	K	D49	4	23														
MAY 24	11:53	8.0	9.98	8.0	K	D49	2	37														
JUN 26	14:36	14.0	4.31	8.6	K	DH48	0	39														
JUL 26	14:39	15.0	1.84	8.6	K	DH48	1	38														
SEP 07	11:44		1.67	10.0	K	DH48	1	37														
OCT 11	11:49	8.0	1.59	4.5	M	D49	5	9														
OCT 11	11:55	8.0	1.47	8.5	M	D49	3	8														
OCT 11	12:02	8.0	1.67	11.0	M	D49	6	11														
OCT 11	12:07	8.0	1.86	13.0	M	D49	3	7														
OCT 11	12:12	8.0	1.77	15.5	M	D49	3	10														
OCT 11	12:19	8.0	8.35	10.0	K	D49	1	7														
OCT 11	12:25	8.0	8.35	12.0	K	D49	3	5														
NOV 14	13:30	8.0	25.1	WERB	K	DIP	32	16														

NOTE: SINGLE VERTICAL IS UNDETERMINED FOR 1990

VERTICAL SYMBOL(S):
K - NOT AT REGULAR SINGLE SAMPLING VERTICAL, FROM LEFT BANK
L - A SEDIMENT MEASUREMENT VERTICAL NOT AT THE REGULAR CROSS SECTION, FROM LEFT BANK
M - A SEDIMENT MEASUREMENT VERTICAL

NORRISH CREEK NEAR DEWDNEY - STATION NO. 08MH058

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1988	--------PP-P	MANUAL	23 OCT 31		0 SEP 14 *		---	---	---	---	---	---
1989	PP-PP-PP--PP	MANUAL	540 NOV 9 *		0 JAN 6		---	---	---	---	---	---
1990	P--PPPP-PPP-	MANUAL	32 NOV 14		0 JUN 26		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

NORTH THOMPSON RIVER AT MCLURE - STATION NO. 08LB064

LOCATION: LAT 51 02 29 N LONG 120 14 28 W
DRAINAGE AREA: 19 600 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: MANUAL

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L,	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002 .004 .008 .016 .031 .062 .125 .250 .500 1.00 2.00	PERCENT SAND SILT CLAY
APR 30	11:05	8.0	113	105	M	P61	26	66		
APR 30	11:10	8.0	120	85.0	M	P61	51	65		
APR 30	11:15	8.0	117	70.0	M	P61	74	65		
APR 30	11:21	8.0	115	55.0	M	P61	23	65		
APR 30	11:27	8.0	140	40.0	M	P61	18	67		
JUN 08	10:57	9.5	238	110	M	P61	72	54		
JUN 08	11:06	9.5	257	90.0	M	P61	51	51		
JUN 08	11:12	9.5	300	75.0	M	P61	41	54		
JUN 08	11:19	9.5	295	55.0	M	P61	39	47		
JUN 08	11:30	9.5	300	40.0	M	P61	41	52		
JUL 23	10:01	16.0	92.8	110	M	P61	65	64		
JUL 23	10:07	16.0	136	90.0	M	P61	70	59		
JUL 23	10:09	16.0	141	70.0	M	P61	51	66		
JUL 23	10:15	16.0	118	55.0	M	P61	47	62		
JUL 23	10:21	16.0	139	40.0	M	P61	33	75		
SEP 14	10:58	15.0	37.4	105	M	P61	10	38		
SEP 14	11:06	15.0	48.9	85.0	M	P61	11	39		
SEP 14	11:11	15.0	57.7	70.0	M	P61	11	39		
SEP 14	11:17	15.0	51.9	55.0	M	P61	11	38		
SEP 14	11:22	15.0	57.8	40.0	M	P61	9	43		
OCT 26	10:55	7.0	21.9	100	M	P61	5	59		
OCT 26	11:02	7.0	24.5	85.0	M	P61	5	53		
OCT 26	11:08	7.0	28.4	70.0	M	P61	3	61		
OCT 26	11:14	7.0	28.8	55.0	M	P61	3	57		
OCT 26	11:20	7.0	30.8	40.0	M	P61	3	69		

NOTE: SINGLE VERTICAL IS UNDETERMINED FOR 1990

VERTICAL SYMBOL(S): M - A SEDIMENT MEASUREMENT VERTICAL

NORTH THOMPSON RIVER AT MCLURE - STATION NO. 08LB064

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)			MINIMUM (MG/L)			SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1988	----P---P---	MANUAL	240	MAY 13	*	19	SEP 2		---	---	---	---	---	---
1989	---PPPP---P-	MANUAL	169	MAY 9		5	NOV 14		---	---	---	---	---	---
1990	---P-PP-PP--	MANUAL	74	APR 30		3	OCT 26	*	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

PITT RIVER NEAR PORT COQUITLAM - STATION NO. 08MH035

LOCATION: LAT 49 14 40 N LONG 122 44 00 W
DRAINAGE AREA: 1 640 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)			MINIMUM (MG/L)			SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1965	-----CCCCCCC	MANUAL	225	OCT 28	*	13	JUN 16		---	---	---	---	---	---
1966	CCCCCCCCCCCC	MANUAL	115	APR 7		12	JAN 4		---	---	---	---	---	---
1967	CCCCCCCCCCCC	MANUAL	130	MAY 13		2	FEB 19		---	---	---	---	---	---
1968	CCCCCCCCCCCC	MANUAL	120	MAY 8		6	JUL 18		---	---	---	---	---	---
1969	CCCCCCCCCCCC	MANUAL	103	APR 19		4	OCT 11		---	---	---	---	---	---
1970	CCCCCCCCCCCC	MANUAL	106	SEP 17		4	APR 12		---	---	---	---	---	---
1971	CCCCCCCCCCCC	MANUAL	164	APR 26		1	MAY 30		---	---	---	---	---	---
1972	PPPPPPPPPPPP	MANUAL	108	APR 11		0	JUN 19	*	---	---	---	---	---	---
1973	PPPPPPPPPPPP	MANUAL	103	MAY 11		1	JUN 24		---	---	---	---	---	---
1974	PPPPPPPPPPPP	MANUAL	204	MAY 4		0	MAY 25		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

PLACE CREEK NEAR BIRKEN - STATION NO. 08MG019

LOCATION: LAT 50 26 10 N LONG 122 36 39 W
DRAINAGE AREA: 7.25 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1968	------PPP---	MANUAL	1 560	AUG 24 *	39	AUG 27 *	---	---	---	---	---	---
1969	------P-----	MANUAL	112	JUL 26	112	JUL 26	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

QUALITY CREEK NEAR THE MOUTH - STATION NO. 07FB005

LOCATION: LAT 55 08 45 N LONG 120 55 24 W
DRAINAGE AREA: 29.5 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JUN-OCT MEAN LOAD (TONNES)	SUMMARY : JUN-OCT HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JUN-OCT STANDARD ERROR OF MEAN %
1979	------PPP---	MANUAL	10	JUL 23	3	SEP 27	---	---	---	---	---	---
1980	------PPPP--	MANUAL	19	AUG 27	2	OCT 21	---	---	---	---	---	---
1981	----PCCCCC--	MANUAL	56	MAY 31	1	JUL 10	6.5	JUN 1	35.5	0.140	0.140	---
1982	----PCCCCC--	MANUAL	355	JUL 15 *	0	OCT 30 *	283	JUL 15 *	1 200 *	5.34	2.74	94.9
1983	----CCCCCC--	MANUAL	199	JUN 20	1	JUN 13	46.4	JUN 20	233	1.46	2.32	67.4

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SAN JUAN RIVER NEAR PORT RENFREW - STATION NO. 08HA010

LOCATION: LAT 48 34 38 N LONG 124 17 49 W
DRAINAGE AREA: 580 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	PERCENT SILT	PERCENT CLAY
JAN 15	13:50	7.0	5.98	83.0	Z	DH48	2	40														
JAN 15	13:53	7.0	9.61	71.0	Z	DH48	5	38														
JAN 15	13:57	7.0	8.05	62.0	Z	DH48	2	43														
JAN 15	14:05	7.0	8.13	50.0	Z	DH48	1	38														
JAN 15	14:08	7.0	9.27	41.0	Z	DH48	2	42														
MAR 27	11:50	7.0	32.0	10.0	X	DH48	2	49														
MAY 08	11:25	9.5	14.2	MID	X	DH48	1	46														
JUN 18	12:10	11.0	14.0	MID	X	DH48	2	63														
AUG 08	12:15	17.0	1.75	MID	X	DH48	2	63														
OCT 10	11:40	7.0	31.1	MID	X	DH48	2	56														
DEC 12	11:40	5.0	61.5	MID	X	DH48	8	53														

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

VERTICAL SYMBOL(S): X - NOT AT REGULAR SINGLE SAMPLE VERTICAL
Z - A SEDIMENT MEASUREMENT NOT AT THE REGULAR MEASUREMENT CROSS-SECTION

SAN JUAN RIVER NEAR PORT RENFREW - STATION NO. 08HA010

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1988	-----P--P---	MANUAL	2	SEP 19	1	JUN 23 *	---	---	---	---	---	---
1989	----P-P-P---	MANUAL	5	SEP 26	1	MAY 31	---	---	---	---	---	---
1990	P-P-PP-P-P-P	MANUAL	8	DEC 12 *	1	JAN 15	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SENTINEL CREEK ABOVE GARIBALDI LAKE - STATION NO. 08GA056

LOCATION: LAT 49 54 10 N LONG 122 59 49 W
DRAINAGE AREA: 5.7 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)				SAMPLED CONCENTRATION MINIMUM (MG/L)				SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)				SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)		SUMMARY : JUL-SEP MEAN LOAD (TONNES)	SUMMARY : JUL-SEP HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JUL-SEP STANDARD ERROR OF MEAN %
1967	------PCCP--	MANUAL	5 160	OCT 10			45	JUL 18			545	SEP 1			5 330		---	---	---
1968	-----PCCC---	MANUAL	5 310	JUL 11			12	AUG 20			3 720	JUL 11	*		5 690	*	61.8	61.8	---
1969	------PCP---	MANUAL	8 550	SEP 22	*		15	AUG 29			1 100	SEP 18			3 020		---	---	---
1970	-----CCCP---	MANUAL	1 810	SEP 15			10	SEP 5			66.7	JUL 28			1 320		---	---	---
1971	-----PCCC---	MANUAL	2 930	AUG 21			9	SEP 25			646	AUG 21			2 580		27.9	44.9	37.8
1972	-----PCCCP--	MANUAL	726	JUL 12			8	JUN 23			428	JUL 12			1 270		12.5	34.1	42.7
1973	----PCCCCP--	MANUAL	521	JUN 23			6	JUN 3	*		84.6	JUN 23			2 340		21.5	30.9	34.8
1974	-----CCCCP--	MANUAL	2 620	SEP 10			13	SEP 28			135	JUL 17			2 020		19.2	28.6	30.3
1975	-------CC---	MANUAL	87	AUG 14			16	SEP 27			22.1	AUG 27			239		---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SILVERHOPE CREEK NEAR HOPE - STATION NO. 08MF009

LOCATION: LAT 49 21 47 N LONG 121 28 09 W
DRAINAGE AREA: 350 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)				SAMPLED CONCENTRATION MINIMUM (MG/L)				SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)				SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)		SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1965	-----CCCCCCC	MANUAL	39	SEP 15			1	DEC 15	*		37.5	DEC 5			1 430		---	---	---
1966	CCCCCCCCCCCC	MANUAL	40	DEC 16			1	MAY 16			332	DEC 18			4 350		11.9	11.9	---
1967	CCCCCCCCCCCC	MANUAL	44	OCT 31			1	MAR 12			791	OCT 31	*		5 550	*	15.2	13.6	12.1
1968	CCCCCCCCCCCC	MANUAL	71	SEP 16			1	MAY 26			100	JAN 20			2 050		5.60	10.9	25.8
1969	CCCCCCCCCCCC	MANUAL	87	MAY 9			1	JUL 11			347	MAY 9			4 310		11.8	11.1	18.0
1970	CCCCCCCCCCCC	MANUAL	89	JUN 3	*		1	MAR 1			374	JUN 3			4 290		11.8	11.3	13.8
1971	PP----------	MANUAL	4	FEB 5			1	JAN 4			---	---			---		---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SIMILKAMEEN RIVER NEAR HEDLEY - STATION NO. 08NL038

LOCATION: LAT 49 22 39 N LONG 120 09 06 W
DRAINAGE AREA: 5 590 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAR 28	14:55	3.0	4.34	37.0	Z	DH48	12	128														
MAR 28	15:05	3.0	3.63	31.0	Z	DH48	8	123														
MAR 28	15:10	3.0	3.22	25.0	Z	DH48	6	127														
MAR 28	15:21	3.0	3.82	18.0	Z	DH48	5	130														
MAR 28	15:28	3.0	4.30	8.0	Z	DH48	6	125														
APR 27	12:14	5.5	19.2	26.0	M	D49	14	91														
APR 27	12:25	5.5	25.6	36.0	M	D49	13	92														
APR 27	12:32	5.5	24.1	44.0	M	D49	14	89														
APR 27	12:39	5.5	25.9	52.0	M	D49	14	86														
APR 27	12:47	5.5	25.3	60.0	M	D49	17	86														
JUN 27	13:41	11.5	22.4	24.0	M	D49	15	49														
JUN 27	13:51	11.5	32.8	36.0	M	D49	15	51														
JUN 27	13:59	11.5	28.3	44.0	M	D49	16	53														
JUN 27	14:04	11.5	29.7	52.0	M	D49	20	47														
JUN 27	14:09	11.5	32.0	60.0	M	D49	21	53														
SEP 12	10:50	15.0	1.55	38.0	Z	DH48	1	104														
SEP 12	10:57	15.0	1.63	33.0	Z	DH48	1	112														
SEP 12	11:04	15.0	1.92	27.0	Z	DH48	1	109														
SEP 12	11:12	15.0	1.96	19.0	Z	DH48	1	115														
SEP 12	11:20	15.0	2.28	10.0	Z	DH48	1	123														
NOV 12	12:06	4.5	41.8	24.0	M	D49	326	82	16	23	37	55	72	84	92	98	100			16	61	23
NOV 12	12:17	4.5	55.4	36.0	M	D49	353	71	14	18	31	48	65	80	94	99	100			20	62	18
NOV 12	12:23	4.5	52.8	44.0	M	D49	356	73	14	21	35	51	62	76	87	94	98	.00		24	55	21
NOV 12	12:32	4.5	53.0	52.0	M	D49	376	75	12	19	32	46	61	73	91	98	100			27	54	19
NOV 12	12:42	4.5	50.6	62.0	M	D49	361	74	12	22	33	49	60	75	86	94	98	100		25	53	22

NOTE: SINGLE VERTICAL IS UNDETERMINED FOR 1990

VERTICAL SYMBOL(S): M - A SEDIMENT MEASUREMENT VERTICAL
Z - A SEDIMENT MEASUREMENT NOT AT THE REGULAR MEASUREMENT CROSS-SECTION

SIMILKAMEEN RIVER NEAR HEDLEY - STATION NO. 08NL038

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1988	---PPPP-P-P-	MANUAL	63	MAY 16	1	JUL 27 *	---	---	---	---	---	---
1989	--P-PP-P--P-	MANUAL	160	NOV 11	2	JUN 23	---	---	---	---	---	---
1990	--PP-P--P-P-	MANUAL	376	NOV 12 *	1	SEP 12	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SKEENA RIVER AT USK - STATION NO. 08EF001

LOCATION: LAT 54 37 50 N LONG 128 25 55 W
DRAINAGE AREA: 42 200 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 04	12:30	6.0	78.5	160	M	D49	39	82														
APR 04	12:40	6.0	83.7	120	M	D49	48	80														
APR 04	12:49	6.0	92.7	95	M	D49	44	76														
APR 04	12:58	6.0	96.6	75	M	D49	48	78														
APR 04	13:09	6.0	97.0	55	M	D49	39	77														
JUN 28	13:00	10.5	343	40	M	P61	121	60														
JUN 28	13:53	10.5	509	70	M	P61	156	60														
JUN 28	14:15	10.5	564	103	M	P61	126	64														
JUN 28	14:36	10.5	522	140	M	P61	117	56														
JUN 28	14:44	10.5	493	178	M	P61	108	56														
SEP 26	12:49	12.0	82.4	160	M	D49	14	50														
SEP 26	13:00	12.0	92.5	123	M	D49	17	43														
SEP 26	13:10	12.0	105	95	M	D49	16	41														
SEP 26	13:22	12.0	104	75	M	D49	14	36														
SEP 26	13:39	12.0	103	55	M	D49	14	11														

NOTE: SINGLE VERTICAL IS UNDETERMINED FOR 1990

VERTICAL SYMBOL(S): M - A SEDIMENT MEASUREMENT VERTICAL

BRITISH COLUMBIA

SKEENA RIVER AT USK - STATION NO. 08EF001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1988	----PP----P-	MANUAL	328 MAY 16 *		5 NOV 23 *		---	---	---	---	---	---
1989	-----P-P----	MANUAL	200 JUN 8		25 AUG 10		---	---	---	---	---	---
1990	---P-P--P---	MANUAL	156 JUN 28		14 SEP 26		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

SMOKY CREEK ABOVE DIVERSIONS - STATION NO. 08NJ162

LOCATION: LAT 49 27 57 N LONG 117 31 04 W
DRAINAGE AREA: 5.59 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: MANUAL

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE VERTICAL SAMPLING (m)	TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002 .004 .008 .016 .031 .062 .125 .250 .500 1.00 2.00	PERCENT SAND	PERCENT SILT	PERCENT CLAY
JAN 18	10:50	0.5	0.020A	MID	DIP	3	71				
FEB 12	12:06	0.5	0.019A	MID	DIP	3	72				
MAR 13	08:15	1.0	0.020A	MID	DIP	2	58				
APR 04	13:50	3.2	0.291A	MID	DIP	23	44				
APR 19	08:24	4.2	0.207A	MID	DIP	4	54				
MAY 04	13:45	6.9	0.115A	MID	DIP	5	56				
JUL 05	08:47	9.2	0.038A	MID	DIP	2	65				
SEP 10	14:44	12.4	0.031A	MID	DIP	4 G	73				
OCT 31	15:11	5.3	0.017A	MID	DIP	2	73				
NOV 15	14:30	4.1	0.032A	MID	DIP	5	52				
DEC 04	08:27	1.4	0.058A	MID	DIP	1	54				

NOTE: SINGLE VERTICAL LOCATED AT 1QLB (ONE QUARTER THE DISTANCE FROM THE LEFT BANK) FOR 1990

DISCHARGE SYMBOL(S): A - MANUAL GAUGE
CONCENTRATION SYMBOL(S): G - ORGANIC MATERIAL PRESENT

SMOKY CREEK ABOVE DIVERSIONS - STATION NO. 08NJ162

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1983	PPPPCPPPPPPP	MANUAL	118 APR 25 *		0 APR 13 *		4.6APR 25 *		12.*	---	---	---
1984	PPPPPPPPPPPP	MANUAL	44 APR 17		0 FEB 5		---	---	---	---	---	---
1985	PPPPPPPPPPPP	MANUAL	47 APR 13		0 JAN 20		---	---	---	---	---	---
1986	PPPPP-PPPP-P	MANUAL	30 MAR 7		0 JAN 5		---	---	---	---	---	---
1987	-PPPPPPPPPPP	MANUAL	19 MAR 6		2 JUN 5		---	---	---	---	---	---
1988	PP-PPPPP-PPP	MANUAL	5 JAN 8		0 JUL 26		---	---	---	---	---	---
1989	PP-PPPPP--PP	MANUAL	21 APR 5		1 JAN 26		---	---	---	---	---	---
1990	PPPPP-P-PPPP	MANUAL	23 APR 4		1 DEC 4		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

SQUAMISH RIVER BELOW MAMQUAM RIVER - STATION NO. 08GA053

LOCATION: LAT 49 43 20 N LONG 123 09 54 W
DRAINAGE AREA:
TYPE OF FLOW: REGULATED SINCE 1957
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1973	-------CCCCC	AUTO	5 470 OCT 20 *		6 DEC 3		---	---	---	---	---	---
1974	--CCCCCCCCCP	AUTO	1 500 AUG 4		4 MAR 23		---	---	---	---	---	---
1975	--CCCCCCCPP-	AUTO	1 750 AUG 28		2 APR 8 *		---	---	---	---	---	---

AUTO - AUTOMATIC SAMPLING

C - COMPLETE MONTH

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

SQUAMISH RIVER NEAR BRACKENDALE - STATION NO. 08GA022

LOCATION: LAT 49 47 40 N LONG 123 12 00 W
DRAINAGE AREA: 2 330 km²
TYPE OF FLOW: REGULATED SINCE 1957
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 12	12:53	2.0	15.8	23	M	D49	3	49														
JAN 12	13:08	2.0	16.1	29	M	D49	3	46														
JAN 12	13:18	2.0	17.8	40	M	D49	5	45														
JAN 12	13:29	2.0	21.0	52	M	D49	4	40														
JAN 12	13:38	2.0	19.4	68	M	D49	2	43														
JUL 26	11:49	12.0	112	113	L	P61	149	20	13	16	30	48	67	85	98	100				15	69	16
JUL 26	12:00	12.0	90.0	100	L	P61	184	33	13	16	25	36	52	69	83	95	100			31	53	16
JUL 26	12:08	12.0	104	88	L	P61	225	24	04	07	11	22	36	45	64	76	88	100		58	38	7
JUL 26	12:16	12.0	104	70	L	P61	276	11	11	17	27	30	39	51	64	76	86	100		49	34	17
JUL 26	12:25	12.0	128	48	L	P61	195	20	10	14	25	37	49	61	80	94	99	100		39	47	14
SEP 10	12:06	10.0	60.8	113	L	P61	96	4														
SEP 10	12:15	10.0	55.7	100	L	P61	140	25														
SEP 10	12:24	10.0	64.7	88	L	P61	117	25														
SEP 10	12:32	10.0	61.9	72	L	P61	150	26														
SEP 10	12:40	10.0	69.7	53	L	P61	113	28														
OCT 15	11:40	8.0	16.8	113	L	P61	18	21														
OCT 15	11:56	8.0	13.4	104	L	P61	19	18														
OCT 15	12:08	8.0	18.8	92	L	P61	23	19														
OCT 15	12:17	8.0	17.1	80	L	P61	22	14														
OCT 15	12:26	8.0	15.9	64	L	P61	20	27														
NOV 22	12:48	4.0	24.7	116	L	P61	53	17														
NOV 22	12:58	4.0	34.3	107	L	P61	57	21														
NOV 22	13:04	4.0	39.6	98	L	P61	50	22														
NOV 22	13:11	4.0	36.6	84	L	P61	45	19														
NOV 22	13:18	4.0	35.3	71	L	P61	41	14														

NOTE: SINGLE VERTICAL IS UNDETERMINED FOR 1990

VERTICAL SYMBOL(S): L - A SEDIMENT MEASUREMENT VERTICAL NOT AT THE REGULAR CROSS SECTION, FROM LEFT BANK
M - A SEDIMENT MEASUREMENT VERTICAL

SQUAMISH RIVER NEAR BRACKENDALE - STATION NO. 08GA022

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)				SAMPLED CONCENTRATION MINIMUM (MG/L)				SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1988	--------P---	MANUAL	202	SEP 6			99	SEP 6			---	---	---	---	---	---
1989	P----P--PP-P	MANUAL	340	JUN 13	*		4	DEC 13			---	---	---	---	---	---
1990	P-----P-PPP-	MANUAL	276	JUL 26			2	JAN 12	*		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

STAVE LAKE INFLOW - STATION NO. 08MH040

LOCATION: LAT 49 13 46 N LONG 122 21 18 W
DRAINAGE AREA: 935 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)				SAMPLED CONCENTRATION MINIMUM (MG/L)				SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1965	-----PPPPPPP	MANUAL	4	JUN 15			1	DEC 2			---	---	---	---	---	---
1966	PPPPPPPPPPPP	MANUAL	12	DEC 13			1	APR 29			---	---	---	---	---	---
1967	PPPPPPPPPPPP	MANUAL	10	JUL 17			1	AUG 8			---	---	---	---	---	---
1968	PPPPPPPPPPPP	MANUAL	4	MAY 30			1	JAN 17			---	---	---	---	---	---
1969	PPPPPPPPPPPP	MANUAL	12	FEB 3			1	MAR 14			---	---	---	---	---	---
1970	PPPPPPPPPPPP	MANUAL	14	JAN 5	*		1	APR 1			---	---	---	---	---	---
1971	PP----------	MANUAL	4	FEB 1			0	JAN 4	*		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

STIKINE RIVER ABOVE BUTTERFLY CREEK - STATION NO. 08CF001

LOCATION: LAT 57 29 10 N LONG 131 45 00 W
DRAINAGE AREA: 36 000 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JUN-OCT MEAN LOAD (TONNES)	SUMMARY : JUN-OCT HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JUN-OCT STANDARD ERROR OF MEAN %
1982	----PCCCCC--	MANUAL	1 900	MAY 30 *	29	OCT 7	315 000	JUN 4 *	8 530 000 *	51 300	51 300	---
1983	-----PPPPP--	MANUAL	821	JUN 4	17	OCT 27 *	---	---	---	---	---	---
1984	----PPPPPP--	MANUAL	516	JUN 8	19	OCT 18	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

STIKINE RIVER ABOVE CHOQUETTE RIVER - STATION NO. 08CF002

LOCATION: LAT 56 49 48 N LONG 131 45 57 W
DRAINAGE AREA:
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1983	------PPPP--	MANUAL	288	AUG 13	55	OCT 16 *	---	---	---	---	---	---
1984	----PPPPPP--	MANUAL	636	JUN 26 *	82	MAY 31	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

STIKINE RIVER ABOVE GRAND CANYON - STATION NO. 08CB001

LOCATION: LAT 58 02 38 N LONG 129 56 45 W
DRAINAGE AREA: 18 800 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1990

DATE	TIME	WATER TEMP. (C)	INSTANT DISCHARGE (m³/s)	SINGLE VERTICAL SAMPLING (m)		TYPE OF SAMPLER	INSTANT CONCENT. (mg/L)		DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	PERCENT SILT	PERCENT CLAY
MAY 30	17:58	5.0	349	130	M	P61	650		54	11	16	29	45	60	76	88	95	99	100				
MAY 30	18:06	5.0	449	106	M	P61	740		57	05	09	20	34	49	66	82	93	98	100		24	60	15
MAY 30	18:12	5.0	395	82	M	P61	854		56	07	14	24	34	44	56	75	90	98	100		34	57	9
MAY 30	18:22	5.0	380	64	M	P61	1068		66	07	11	20	28	38	50	64	77	88	100		44	42	14
MAY 30	18:34	5.0	449	40	M	P61	1676		65	06	08	13	18	24	32	47	55	75	98	100	50	39	11
MAY 30	19:23	5.0	2020	MID		P61	995		64	10	16	23	31	39	51	66	77	86	99	100	68	24	8
AUG 07	08:44	12.0	318	MID		P61	69		80												49	35	16
AUG 07	11:05	12.0	64.3	44	M	P61	60		82														
AUG 07	11:14	12.0	64.8	62	M	P61	60		86														
AUG 07	11:20	12.0	70.1	80	M	P61	59		96														
AUG 07	11:29	12.0	67.3	104	M	P61	56		78														
AUG 07	11:35	12.0	51.8	128	M	P61	52		74														
OCT 02	17:25	5.5	35.2	128	M	P61	39	C	81														
OCT 02	17:35	5.5	37.4	104	M	P61	10		81														
OCT 02	17:43	5.5	41.4	80	M	P61	11		89														
OCT 02	17:50	5.5	39.8	62	M	P61	11		85														
OCT 02	17:55	5.5	44.5	47	M	P61	11		84														
OCT 02	18:55	5.5	198	MID		P61	9		78														

NOTE: SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1990

CONCENTRATION SYMBOL(S): C - COARSE MATERIAL PRESENT
VERTICAL SYMBOL(S): M - A SEDIMENT MEASUREMENT VERTICAL

BRITISH COLUMBIA

STIKINE RIVER ABOVE GRAND CANYON - STATION NO. 08CB001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JUN-SEP MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1980	----CCCCCCC-	MANUAL	884 JUL 24		6 DEC 18 *		121 000 JUL 24		1 740 000	11 400	11 400	---
1981	----CCCCCC--	MANUAL	1 860 MAY 27		11 OCT 26		144 000 MAY 27		1 980 000 *	11 600	11 600	1.7
1982	----PCCCCC--	MANUAL	1 220 JUN 2		11 OCT 8		163 000 JUN 13		2 500 000	19 000	14 100	17.5
1983	-----CCC-P--	MANUAL	1 260 JUN 2		13 OCT 21		212 000 JUN 2		3 030 000	---	---	---
1984	-----CCCC---	MANUAL	3 740 JUN 10 *		8 SEP 29		292 000 JUN 10 *		2 690 000	22 000	16 100	16.4
1988	-----PP-P---	MANUAL	729 JUN 13		23 SEP 30		---	---	---	---	---	---
1989	-----PP--P--	MANUAL	371 JUN 14		13 OCT 7		---	---	---	---	---	---
1990	----P--P-P--	MANUAL	1 680 MAY 30		9 OCT 2		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

STIKINE RIVER AT TELEGRAPH CREEK - STATION NO. 08CE001

LOCATION: LAT 57 54 03 N LONG 131 09 16 W
DRAINAGE AREA: 29 300 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1968	-----P------	MANUAL	207 JUN 13		207 JUN 13 *		---	---	---	---	---	---
1972	----P-------	MANUAL	1 600 MAY 30 *		1 600 MAY 30		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SUKUNKA RIVER ABOVE CHAMBERLAIN CREEK - STATION NO. 07FB007

LOCATION: LAT 55 11 16 N LONG 121 45 40 W
DRAINAGE AREA: 927 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)		SAMPLED CONCENTRATION MINIMUM (MG/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MAY-OCT MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1978	----CCCCC---	MANUAL	88 MAY 21		1 AUG 3		852 MAY 21		7 630	---	---	---
1979	----PCCCC---	MANUAL	258 JUN 3		0 AUG 24 *		4 860 JUN 3		36 300	---	---	---
1980	----PC--PP--	MANUAL	51 JUN 18		1 OCT 27		555 JUN 18		7 070	---	---	---
1981	----CCCCCC--	MANUAL	217 MAY 22		1 OCT 21		4 990 MAY 22		57 400 *	312	312	---
1982	----CCCCCC--	MANUAL	436 JUL 15 *		1 SEP 26		8 170 JUL 15 *		52 000	283	297	4.9
1983	---PCCCCCC--	MANUAL	208 JUL 15		0 OCT 13		3 320 JUL 15		24 400	133	242	22.9
1984	--PCCCCCCC--	MANUAL	233 JUN 6		3 AUG 7		3 070 OCT 9		37 000	200	232	17.6
1985	---PCCCCCC--	MANUAL	423 MAY 20		1 AUG 11		6 430 MAY 20		55 300	300	246	14.0

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SUKUNKA RIVER NEAR THE MOUTH - STATION NO. 07FB003

LOCATION: LAT 55 32 34 N LONG 121 37 28 W
DRAINAGE AREA: 2 510 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MAY-OCT MEAN LOAD (TONNES)	SUMMARY : MAY-OCT HISTORICAL MEAN LOAD (TONNES)	SUMMARY : MAY-OCT STANDARD ERROR OF MEAN %
1978	----CCCCC---	MANUAL	149 MAY 20	1 JUL 17 *	2 910 MAY 21	36 700	---	---	---
1979	----PCCCC---	MANUAL	419 JUN 2	4 AUG 26	16 100 JUN 3	158 000	---	---	---
1980	----PPCC-C--	MANUAL	107 MAY 12	4 OCT 24	1 600 MAY 12	10 100	---	---	---
1981	----PCCCCC--	MANUAL	980 JUN 1	1 OCT 20	34 200 JUN 1	111 000	---	---	---
1982	----CCCCCC--	MANUAL	2 070 JUL 16 *	1 SEP 22	126 000 JUL 16 *	405 000 *	2 200	2 200	---
1983	---PCCCCCC--	MANUAL	821 JUL 15	5 SEP 2	29 700 JUL 15	147 000	778	1 490	47.7

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

TAKU RIVER NEAR TULSEQUAH - STATION NO. 08BB001

LOCATION: LAT 58 38 20 N LONG 133 32 25 W
DRAINAGE AREA: 15 500 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE:

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1968	-----P------	MANUAL	166 JUN 17 *	166 JUN 17 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

TASEKO RIVER AT OUTLET OF TASEKO LAKES - STATION NO. 08MA003

LOCATION: LAT 51 22 46 N LONG 123 37 50 W
DRAINAGE AREA: 1 520 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1982	-----P-PP---	MANUAL	22 AUG 12 *	10 JUN 22	--- ---	---	---	---	---
1983	---P-PPPP---	MANUAL	21 SEP 14	7 JUN 5 *	--- ---	---	---	---	---
1984	--P--P-P----	MANUAL	17 MAR 22	9 JUN 28	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

TRAPPING CREEK NEAR THE MOUTH - STATION NO. 08NN019

LOCATION: LAT 49 33 52 N LONG 119 03 08 W
DRAINAGE AREA: 144 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1966	----PP-PP-PP	MANUAL	7 AUG 16 *	2 JUN 15	--- ---	---	---	---	---
1967	-PP-P-PPP---	MANUAL	6 MAY 15	1 FEB 6 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

TUYA RIVER NEAR TELEGRAPH CREEK - STATION NO. 08CD001

LOCATION: LAT 58 04 20 N LONG 130 49 27 W
DRAINAGE AREA: 3 600 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1972	----P-------	MANUAL	1 890 MAY 30 *	1 870 MAY 30 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

VERNON CREEK NEAR THE MOUTH - STATION NO. 08NM160

LOCATION: LAT 50 15 19 N LONG 119 18 20 W
DRAINAGE AREA: 751 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: MANUAL

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (MG/L)	SAMPLED CONCENTRATION MINIMUM (MG/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1976	-------PCCCC	MANUAL	64 AUG 25	5 OCT 13	17.7AUG 25	730	---	---	---
1977	CCCCCCCCCCCC	MANUAL	227 DEC 3	2 AUG 18 *	40.4MAY 13	1 360	3.72	3.72	---
1978	CCCCCCCCCCCC	MANUAL	595 FEB 8 *	6 SEP 12	106 JUN 13 *	2 610 *	7.16	5.44	31.6
1979	CCCCCCCCCCCC	MANUAL	62 MAR 11	2 AUG 28	9.9MAY 5	507	1.39	4.09	40.9
1980	CCCCCCCCCCCC	MANUAL	101 MAY 6	3 NOV 15	10.2MAY 6	335	0.916	3.30	43.2

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

NAME	STATION NO.	PAGE
BRITISH COLUMBIA		
ANDERSON CREEK NEAR NELSON	08NJ130	1
ARROW CREEK NEAR ERICKSON	08NH084	1
BEATTON RIVER NEAR FORT ST. JOHN	07FC001	2
BELLA COOLA RIVER ABOVE BURNT BRIDGE CREEK	08FB007	2
BOWSER RIVER AT BERENDON GLACIER	08DA006	3
BULKLEY RIVER AT QUICK	08EE004	3
CARNATION CREEK AT THE MOUTH	08HB048	4
CHILCOTIN RIVER BELOW BIG CREEK	08MB005	4
CHILKO RIVER AT OUTLET OF CHILKO LAKE	08MA002	5
CHILKO RIVER NEAR REDSTONE	08MA001	5
CHILLIWACK RIVER AT VEDDER CROSSING	08MH001	5
CLEARWATER RIVER NEAR CLEARWATER STATION	08LA001	6
COLUMBIA RIVER ABOVE STEAMBOAT RAPIDS	08ND011	6
COLUMBIA RIVER AT BIRCHBANK	08NE049	6
COLUMBIA RIVER AT DONALD	08NB005	7
COLUMBIA RIVER AT NICHOLSON	08NA002	7
COQUITLAM RIVER AT PORT COQUITLAM	08MH002	7
DICKEBUSCH CREEK NEAR THE MOUTH	07FB004	8
DUCK CREEK NEAR WYNNDEL	08NH016	8
ELAHO RIVER NEAR THE MOUTH	08GA071	8
ELK RIVER AT FERNIE	08NK002	9
ELK RIVER NEAR NATAL	08NK016	9
ENGLISHMAN RIVER NEAR PARKSVILLE	08HB002	9
FELL CREEK NEAR NELSON	08NJ129	10
FIVE MILE CREEK ABOVE CITY INTAKE	08NJ168	11
FLATHEAD RIVER AT FLATHEAD	08NP001	15
FORDING RIVER ABOVE CLODE CREEK	08NK025	19
FORDING RIVER AT THE MOUTH	08NK018	19
FORDING RIVER BELOW CLODE CREEK	08NK021	20
FORREST KERR CREEK ABOVE 460 M CONTOUR	08CG006	20
FORT NELSON RIVER ABOVE MUSKWA RIVER	10CC002	20
FRASER RIVER AT HANSARD	08KA004	21
FRASER RIVER AT HOPE	08MF005	22
FRASER RIVER AT MISSION	08MH024	24
FRASER RIVER AT PORT MANN PUMPING STATION	08MH126	26
FRASER RIVER NEAR AGASSIZ	08MF035	26
FRASER RIVEN NEAR MARGUERITE	08MC018	27
[illegible]GSEE CREEK AT THE MOUTH	08FA009	27
[illegible]RAVE CREEK AT THE MOUTH	08NK019	28
HALFWAY RIVER NEAR FARRELL CREEK (LOWER STATION)	07FA001	28
HARRISON RIVER NEAR HARRISON HOT SPRINGS	08MG013	28
HOMATHKO RIVER AT THE MOUTH	08GD004	29
HOMATHKO RIVER AT TRAGEDY CANYON	08GD006	29
HOMATHKO RIVER BELOW NOSTETUKO RIVER	08GD009	30
HOMATHKO RIVER BELOW NUDE CREEK	08GD005	30
HYLAND RIVER NEAR LOWER POST	10AD001	31
ISKUT RIVER ABOVE SNIPPAKER CREEK	08CG004	31
ISKUT RIVER BELOW JOHNSON RIVER	08CG001	31
JOHN CREEK NEAR MEADOW CREEK	08NH125	31
KECHIKA RIVER AT THE MOUTH	10BB001	32
KITIMAT RIVER BELOW HIRSCH CREEK	08FF001	32
KLAPPAN RIVER NEAR TELEGRAPH CREEK	08CC001	33
KOOTENAI RIVER NEAR COPELAND	08NH031	33
KOOTENAY RIVER AT CANAL FLATS	08NF002	33
KOOTENAY RIVER AT FORT STEELE	08NG065	34
KOOTENAY RIVER AT NICKS ISLAND	08NH129	34
LIARD RIVER ABOVE BEAVER RIVER	10BE005	35
LIARD RIVER ABOVE KECHIKA RIVER	10BE009	35
LIARD RIVER AT LOWER CROSSING	10BE001	35
LINE CREEK AT THE MOUTH	08NK022	35
MEADOW CREEK ABOVE JOHN CREEK	08NH124	36
MEADOW CREEK DIVERSION BELOW JOHN CREEK	08NH128	36
MICHEL CREEK AT MICHEL	08NK023	36
MICHEL CREEK BELOW NATAL	08NK020	37
MORE CREEK NEAR THE MOUTH	08CG005	37
MOSLEY CREEK NEAR DUMBELL LAKE	08GD007	37
MURRAY RIVER ABOVE WOLVERINE RIVER	07FB006	38
MURRAY RIVER NEAR THE MOUTH	07FB002	38
MUSKWA RIVER NEAR FORT NELSON	10CD001	39
NECHAKO RIVER AT VANDERHOOF	08JC001	39
NORRISH CREEK NEAR DEWDNEY	08MH058	40
NORTH THOMPSON RIVER AT MCLURE	08LB064	41
PITT RIVER NEAR PORT COQUITLAM	08MH035	41
PLACE CREEK NEAR BIRKEN	08MG019	42
QUALITY CREEK NEAR THE MOUTH	07FB005	42
SAN JUAN RIVER NEAR PORT RENFREW	08HA010	42
SENTINEL CREEK ABOVE GARIBALDI LAKE	08GA056	43
SILVERHOPE CREEK NEAR HOPE	08MF009	43
SIMILKAMEEN RIVER NEAR HEDLEY	08NL038	44
SKEENA RIVER AT USK	08EF001	44
SMOKY CREEK ABOVE DIVERSIONS	08MJ162	45
SQUAMISH RIVER BELOW MAMQUAM RIVER	08GA053	45
SQUAMISH RIVER NEAR BRACKENDALE	08GA022	46
STAVE LAKE INFLOW	08MH040	46
STIKINE RIVER ABOVE BUTTERFLY CREEK	08CF001	47
STIKINE RIVER ABOVE CHOQUETTE RIVER	08CF002	47
STIKINE RIVER ABOVE GRAND CANYON	08CB001	47
STIKINE RIVER AT TELEGRAPH CREEK	08CE001	48
SUKUNKA RIVER ABOVE CHAMBERLAIN CREEK	07FB007	48
SUKUNKA RIVER NEAR THE MOUTH	07FB003	49
TAKU RIVER NEAR TULSEQUAH	08BB001	49
TASEKO RIVER AT OUTLET OF TASEKO LAKES	08MA003	49
TRAPPING CREEK NEAR THE MOUTH	08NN019	49
TUYA RIVER NEAR TELEGRAPH CREEK	08CD001	50
VERNON CREEK NEAR THE MOUTH	08NM160	50

STATION NO.	NAME	PAGE
	BRITISH COLUMBIA	
07FA001	HALFWAY RIVER NEAR FARRELL CREEK (LOWER STATION)	28
07FB002	MURRAY RIVER NEAR THE MOUTH	38
07FB003	SUKUNKA RIVER NEAR THE MOUTH	49
07FB004	DICKEBUSCH CREEK NEAR THE MOUTH	8
07FB005	QUALITY CREEK NEAR THE MOUTH	42
07FB006	MURRAY RIVER ABOVE WOLVERINE RIVER	38
07FB007	SUKUNKA RIVER ABOVE CHAMBERLAIN CREEK	49
07FC001	BEATTON RIVER NEAR FORT ST. JOHN	2
08BB001	TAKU RIVER NEAR TULSEQUAH	45
08CB001	STIKINE RIVER ABOVE GRAND CANYON	47
08CC001	KLAPPAN RIVER NEAR TELEGRAPH CREEK	33
08CD001	TUYA RIVER NEAR TELEGRAPH CREEK	50
08CE001	STIKINE RIVER AT TELEGRAPH CREEK	48
08CF001	STIKINE RIVER ABOVE BUTTERFLY CREEK	47
08CF002	STIKINE RIVER ABOVE CHOQUETTE RIVER	47
08CG001	ISKUT RIVER BELOW JOHNSON RIVER	31
08CG004	ISKUT RIVER ABOVE SNIPPAKER CREEK	31
08CG005	MORE CREEK NEAR THE MOUTH	37
08CG006	FORREST KERR CREEK ABOVE 460 M CONTOUR	20
08DA006	BOWSER RIVER AT BERENDON GLACIER	3
08EE004	BULKLEY RIVER AT QUICK	3
08EF001	SKEENA RIVER AT USK	44
08FA009	GENESEE CREEK AT THE MOUTH	27
08FB007	BELLA COOLA RIVER ABOVE BURNT BRIDGE CREEK	2
08FF001	KITIMAT RIVER BELOW HIRSCH CREEK	32
08GA022	SQUAMISH RIVER NEAR BRACKENDALE	46
08GA053	SQUAMISH RIVER BELOW MAMQUAM RIVER	45
08GA056	SENTINEL CREEK ABOVE GARIBALDI LAKE	43
08GA071	ELAHO RIVER NEAR THE MOUTH	8
08GD004	HOMATHKO RIVER AT THE MOUTH	29
08GD005	HOMATHKO RIVER BELOW NUDE CREEK	30
08GD006	HOMATHKO RIVER AT TRAGEDY CANYON	29
08GD007	MOSLEY CREEK NEAR DUMBELL LAKE	37
08GD009	HOMATHKO RIVER BELOW NOSTETUKO RIVER	30
08HA010	SAN JUAN RIVER NEAR PORT RENFREW	42
08HB002	ENGLISHMAN RIVER NEAR PARKSVILLE	9
08HB048	CARNATION CREEK AT THE MOUTH	4
08JC001	NECHAKO RIVER AT VANDERHOOF	39
08KA004	FRASER RIVER AT HANSARD	21
08LA001	CLEARWATER RIVER NEAR CLEARWATER STATION	6
08LB064	NORTH THOMPSON RIVER AT MCLURE	41
08MA001	CHILKO RIVER NEAR REDSTONE	5
08MA002	CHILKO RIVER AT OUTLET OF CHILKO LAKE	5
08MA003	TASEKO RIVER AT OUTLET OF TASEKO LAKES	49
08MB005	CHILCOTIN RIVER BELOW BIG CREEK	4
08MC010	FRASER RIVER NEAR MARGUERITE	27
08MF005	FRASER RIVER AT HOPE	21
08MF009	SILVERHOPE CREEK NEAR HOPE	43
08MF015	FRASER RIVER NEAR AGASSIZ	26
08MG013	HARRISON RIVER NEAR HARRISON HOT SPRINGS	28
08MG019	PLACE CREEK NEAR BIRKEN	42
08MH001	CHILLIWACK RIVER AT VEDDER CROSSING	5
08MH002	COQUITLAM RIVER AT PORT COQUITLAM	7
08MH024	FRASER RIVER AT MISSION	22
08MH035	PITT RIVER NEAR PORT COQUITLAM	41
08MH040	STAVE LAKE INFLOW	46
08MH058	NORRISH CREEK NEAR DEWDNEY	40
08MH126	FRASER RIVER AT PORT MANN PUMPING STATION	26
08NA002	COLUMBIA RIVER AT NICHOLSON	7
08NB005	COLUMBIA RIVER AT DONALD	7
08ND011	COLUMBIA RIVER ABOVE STEAMBOAT RAPIDS	6
08NE049	COLUMBIA RIVER AT BIRCHBANK	6
08NF002	KOOTENAY RIVER AT CANAL FLATS	33
08NG065	KOOTENAY RIVER AT FORT STEELE	34
08NH016	DUCK CREEK NEAR WYNNDEL	8
08NH031	KOOTENAI RIVER NEAR COPELAND	33
08NH084	ARROW CREEK NEAR ERICKSON	1
08NH124	MEADOW CREEK ABOVE JOHN CREEK	36
08NH125	JOHN CREEK NEAR MEADOW CREEK	31
08NH128	MEADOW CREEK DIVERSION BELOW JOHN CREEK	36
08NH129	KOOTENAY RIVER AT NICKS ISLAND	34
08NJ129	FELL CREEK NEAR NELSON	10
08NJ130	ANDERSON CREEK NEAR NELSON	1
08NJ162	SMOKY CREEK ABOVE DIVERSIONS	45
08NJ168	FIVE MILE CREEK ABOVE CITY INTAKE	11
08NK002	ELK RIVER AT FERNIE	9
08NK016	ELK RIVER NEAR NATAL	9
08NK018	FORDING RIVER AT THE MOUTH	19
08NK019	GRAVE CREEK AT THE MOUTH	28
08NK020	MICHEL CREEK BELOW NATAL	37
08NK021	FORDING RIVER BELOW CLODE CREEK	20
08NK022	LINE CREEK AT THE MOUTH	35
08NK023	MICHEL CREEK AT MICHEL	36
08NK025	FORDING RIVER ABOVE CLODE CREEK	19
08NL038	SIMILKAMEEN RIVER NEAR HEDLEY	44
08NM160	VERNON CREEK NEAR THE MOUTH	50
08NN019	TRAPPING CREEK NEAR THE MOUTH	49
08NP001	FLATHEAD RIVER AT FLATHEAD	15
10AD001	HYLAND RIVER NEAR LOWER POST	31
10BB001	KECHIKA RIVER AT THE MOUTH	32
10BE001	LIARD RIVER AT LOWER CROSSING	35
10BE005	LIARD RIVER ABOVE BEAVER RIVER	35
10BE006	LIARD RIVER ABOVE KECHIKA RIVER	35
10CC002	FORT NELSON RIVER ABOVE MUSKWA RIVER	20
10CD001	MUSKWA RIVER NEAR FORT NELSON	39